

# Supporting Information

## **AgPd, AuPd and AuPt nanoalloys with Ag- or Au-rich compositions: Modeling chemical ordering and optical properties**

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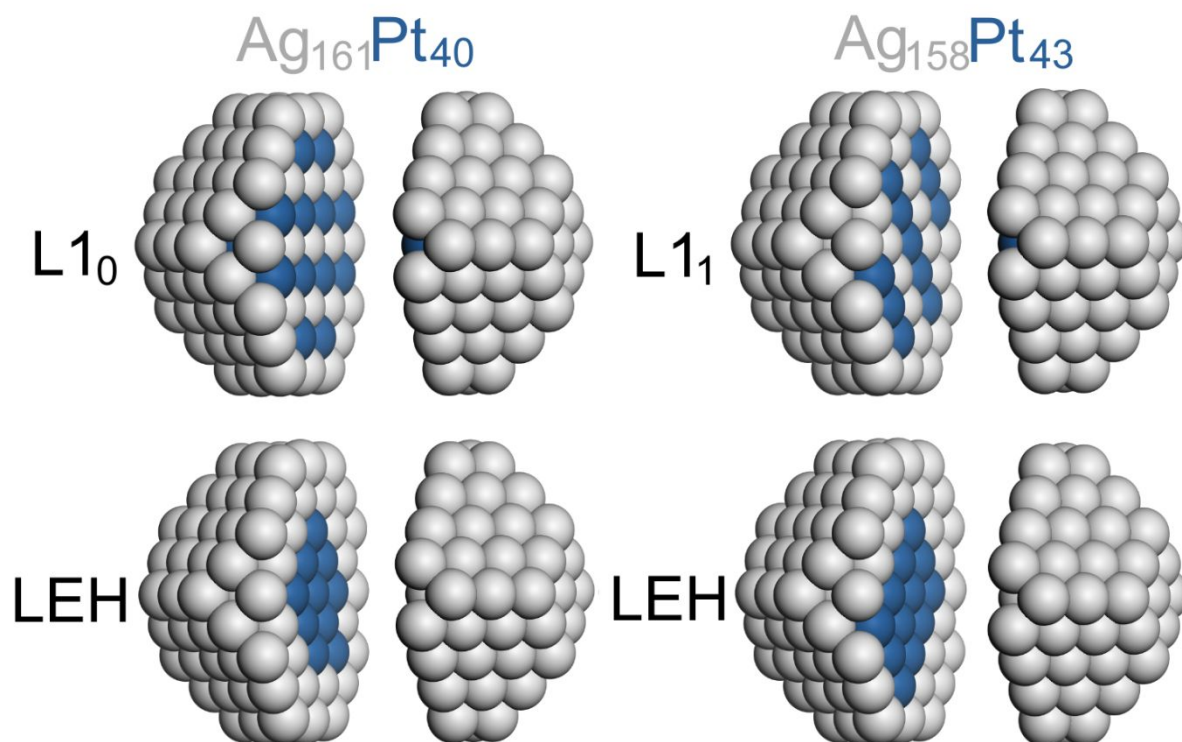
**Table S1.** Mean values of the bond lengths Ax-Ax, Ax-Px and Px-Px (in pm) in 201-atomic nanoparticles (NPs) AxPx (Ax = Ag, Au; Px = Pd, Pt) calculated using PBE and PBEsol xc-functionals.

Particle	Homotop	Ax-Ax			Ax-Px			Px-Px		
		PBE	PBEsol	diff <sup>a</sup>	PBE	PBEsol	diff <sup>a</sup>	PBE	PBEsol	diff <sup>a</sup>
Ag <sub>158</sub> Pd <sub>43</sub>	L1 <sub>1</sub>	287.5	281.5	6.1	287.2	281.7	5.5	286.3	280.6	5.7
Au <sub>158</sub> Pd <sub>43</sub>	L1 <sub>1</sub>	286.9	281.7	5.2	288.0	283.0	5.0	286.4	281.1	5.3
Au <sub>158</sub> Pt <sub>43</sub>	L1 <sub>1</sub>	287.1	282.0	5.1	291.5	286.5	5.1	281.2	277.3	3.9

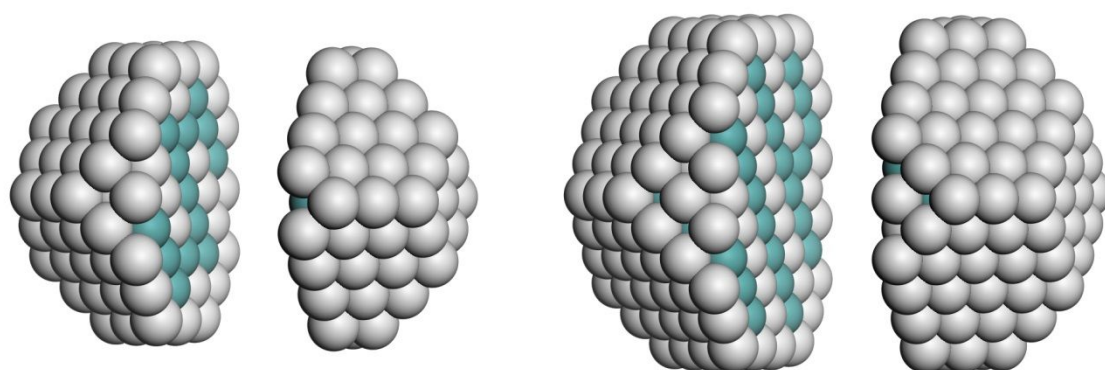
<sup>a</sup> diff = bond\_lenght(PBE) - bond\_lenght(PBEsol)

**Table S2.** Topological energy energy descriptors  $\epsilon$  (meV) calculated by fitting PBE and PBEsol energies of 20 homotops of 201-atomic AxPx particles.

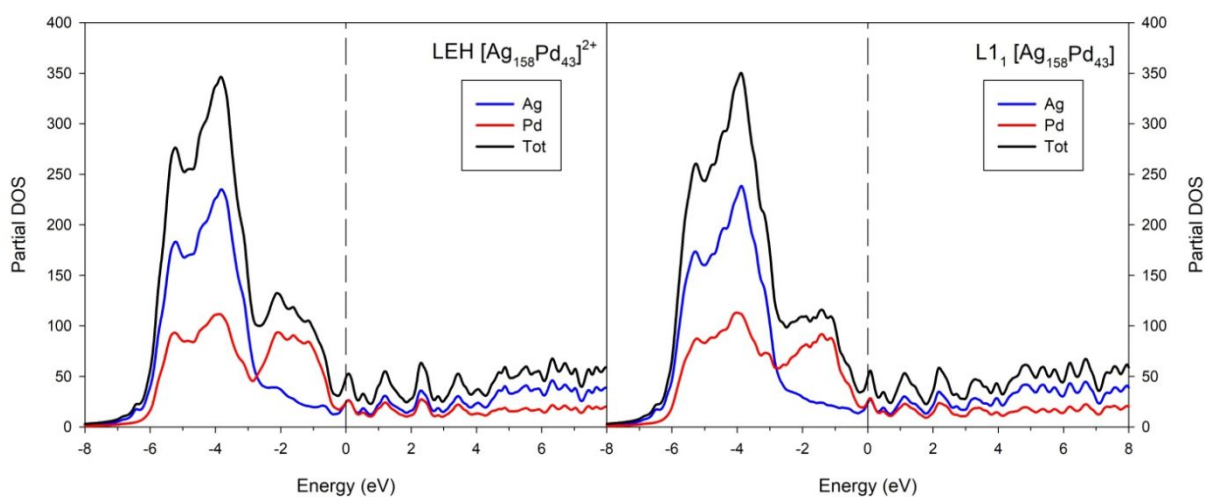
Particle	xc-functional	$\epsilon_{\text{BOND}}^{\text{Ax-Px}}$	$\epsilon_{\text{CORNER}}^{\text{Ax}}$	$\epsilon_{\text{EDGE}}^{\text{Ax}}$	$\epsilon_{\text{TERRACE}}^{\text{Ax}}$
Ag <sub>158</sub> Pd <sub>43</sub>	PBE	-11	-387	-406	-107
	PBEsol	-11	-433	-431	-119
Au <sub>158</sub> Pd <sub>43</sub>	PBE	-29	-403	-419	-216
	PBEsol	-31	-410	-420	-236
Au <sub>158</sub> Pt <sub>43</sub>	PBE	+14	-574	-533	-280
	PBEsol	+13	-622	-548	-310



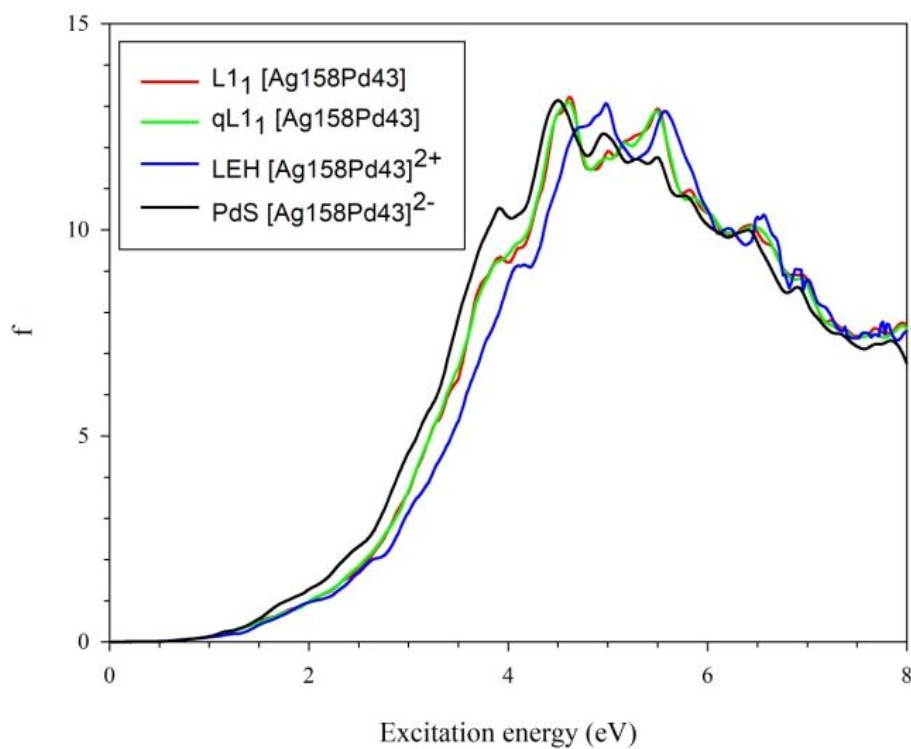
**Figure S1.** Sketches of 201-atomic AgPt NPs with different atomic orderings. The structures are calculated in *J. Phys. Chem. C* **2019**, *123*, 25482; doi: 10.1021/acs.jpcc.9b07382. The images are split to show inner parts of the NPs. Ag atoms – grey; Pt atoms – dark blue.



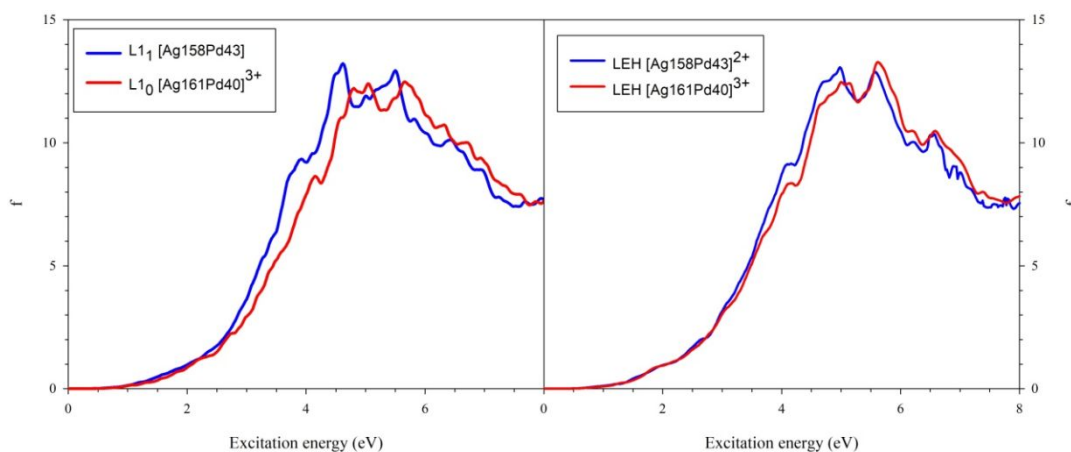
**Figure S2.** Quasi-perfect inner-atoms layered orderings  $qL1_1$  of  $\text{Ag}_{158}\text{Pd}_{43}$  (left panel) and  $\text{Ag}_{295}\text{Pd}_{110}$  (right panel) nanoparticles. Ag atoms – grey; Pd atoms – blue.



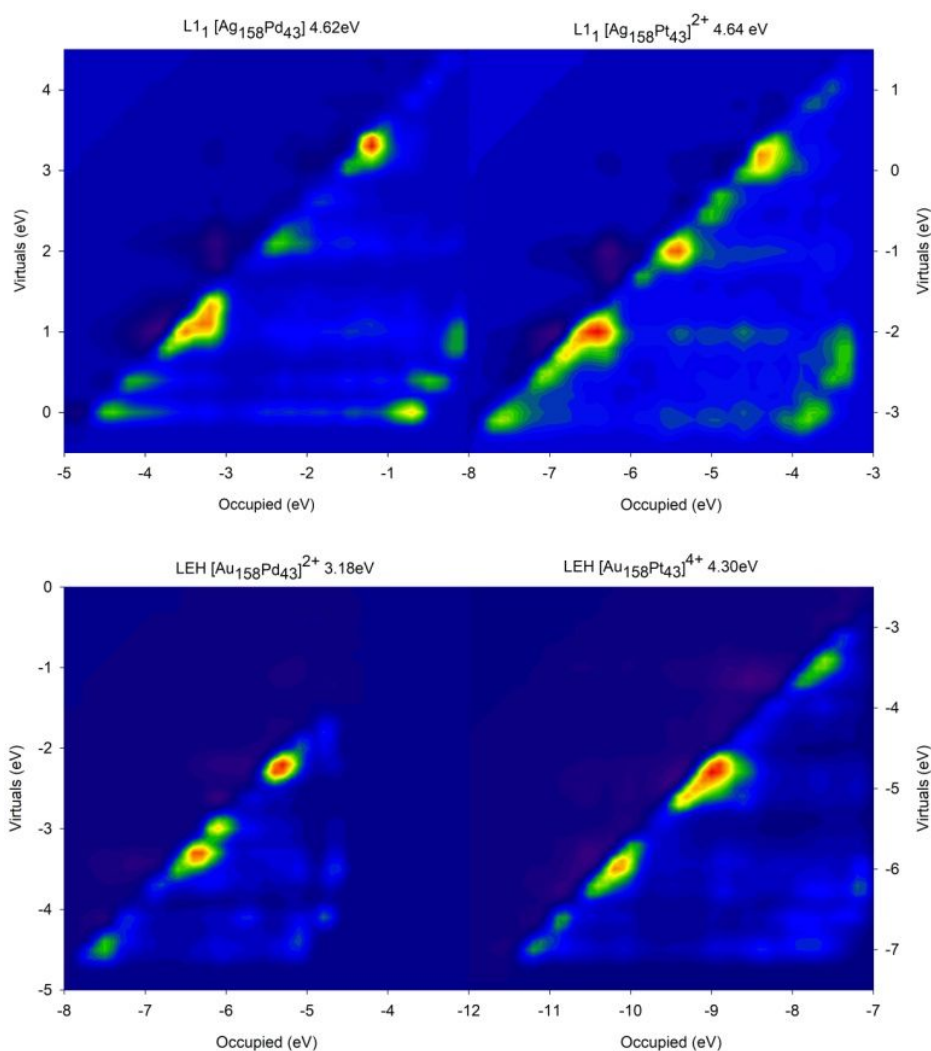
**Figure S3.** Comparison between the PDOS plots of  $[\text{Ag}_{158}\text{Pd}_{43}]^n$  NPs with different chemical orderings



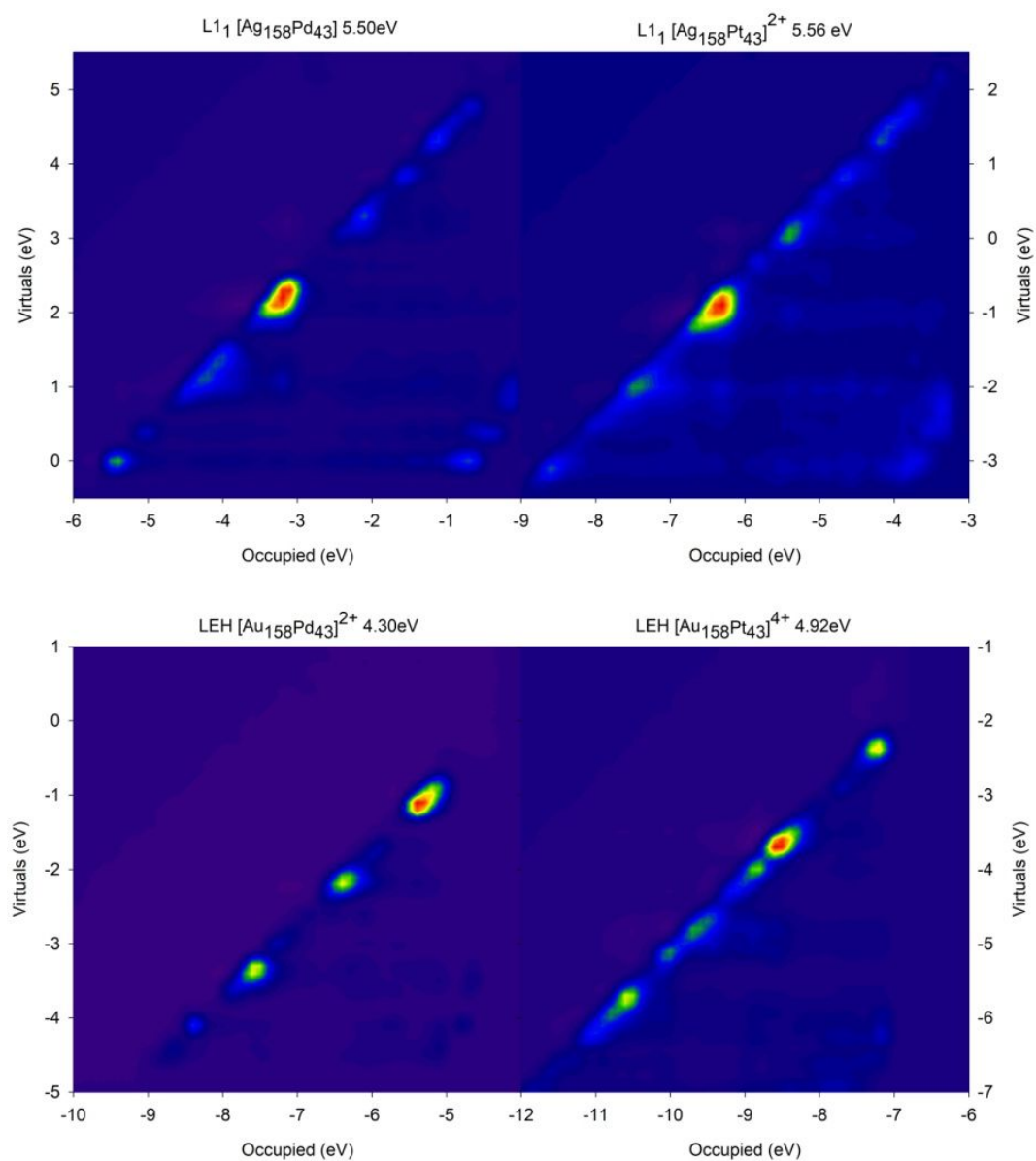
**Figure S4.** Comparison between optical spectra of the closed-shell  $\text{Ag}_{158}\text{Pd}_{43}$  NPs with different chemical orderings



**Figure S5.** Comparison between the optical spectra of the closed-shell  $\text{Ag}_{158}\text{Pd}_{43}$  and  $\text{Ag}_{161}\text{Pd}_{40}$  NPs with different chemical orderings



**Figure S6.** Second set of ICM-OS plots of the closed-shell  $\text{Ag}_{158}\text{Pd}_{43}$ ,  $[\text{Ag}_{158}\text{Pt}_{43}]^{2+}$ ,  $[\text{Au}_{158}\text{Pd}_{43}]^{2+}$  and  $[\text{Au}_{158}\text{Pt}_{43}]^{4+}$  NPs, corresponding to the peak position indicated by the central arrow for each color in Figure 6. The excitonic energy of the analyzed peak is given above each plot.



**Figure S7.** Third set of ICM-OS plots of the closed-shell  $\text{Ag}_{158}\text{Pd}_{43}$ ,  $\text{Ag}_{158}\text{Pt}_{43}$ ,  $\text{Au}_{158}\text{Pd}_{43}$  and  $\text{Au}_{158}\text{Pt}_{43}$  NPs, corresponding to the peak position indicated by the right-most arrow for each color in Figure 6. The excitonic energy of the analyzed peak is given above each plot.

**DFT/PBE atomic coordinates (in Å) in the homotops of the AxPx  
(Ax = Au, Ag; Px = Pd, Pt) nanoparticles presented in Table 2**

**Pd<sub>40</sub>Ag<sub>161</sub>L1<sub>0</sub>-606.998**

Ag	14.51180935664417	14.51191806331107	4.40121720775623
Ag	12.50000728695835	6.40395934079597	18.57233001245677
Ag	8.42229584355976	10.44658246474951	18.59022210979660
Ag	12.49997529226201	4.39420940932568	16.54134951975988
Ag	20.60537066652045	12.50013101789234	16.54135042377021
Ag	10.48802359965782	14.51186725884602	20.59882402577399
Ag	10.44675644556651	18.61723419846138	16.55160334149416
Ag	20.66640276682324	14.51833087275328	14.51607789104139
Ag	20.66643248769578	10.48179104847789	14.51617436129113
Ag	10.48827309160322	14.51188324947584	4.40113920372259
Ag	10.44665401145130	8.42229631451465	18.59005214292345
Ag	4.33360165397038	14.51821596056526	14.51593009860748
Ag	14.55313492523030	6.38268507849326	16.55185421757911
Ag	6.38282513279885	10.44682937468835	16.55187384574214
Ag	12.50000236474587	6.40398646392043	6.42758625583631
Ag	14.55333637363153	16.57778000992306	18.58998577118878
Ag	14.5182458889090	4.33358698428939	10.48426581468381
Ag	6.35755618100231	8.39845509461185	14.54928952591431
Ag	14.55315540287967	6.38276870518917	8.44841830883194
Ag	10.48161322666963	20.66642277813965	10.48392372267249
Ag	8.39836017790793	6.35760797663685	10.45090122219860
Ag	10.44668638516893	16.57765114809558	6.40979574340402
Ag	18.64244922920278	8.39838452556785	14.54933755654224
Ag	14.51826719749399	20.66640263615977	14.51587493366769
Ag	6.38297859199348	14.55325235028962	8.44801012376314
Ag	6.36889570719435	6.36900761397054	12.50000854232691
Ag	8.39837627912906	18.64235830840815	14.54910177525922
Ag	18.63100625851481	6.36901065960735	12.50022712632067
Ag	6.40416774481271	12.49996686898381	6.42722987561578
Ag	18.64235576311787	16.60171267920142	14.54918656978656
Ag	16.57325046819157	8.42678515356841	16.53593848646930
Ag	6.38282313724913	10.44677385375506	8.44806585019092
Ag	6.35761214126972	16.60155947584958	10.45062676532108
Ag	16.57318246591253	16.57345647734490	16.53580532139391
Ag	14.55316247695520	18.61729367342663	16.55169348669020
Ag	16.60166716978596	6.35761311932336	10.45099636381835
Ag	12.49987422450542	4.27941802997733	12.50017346039568
Ag	10.48174183488536	20.66640683796878	14.51591035377129
Ag	14.51837141729215	4.33355800720260	14.51599774848532
Ag	12.50008737736760	12.49993354623718	4.37805300180953
Ag	8.39836400223201	18.64242453852798	10.45077194733785
Ag	10.44677304238884	6.38284002210996	8.44833605055438
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Ag	18.64236566453204	8.39835588058676	10.45089753385339
Ag	10.44662818447608	8.42234157504032	6.41010451439527
Ag	16.60167137545939	6.35746043659129	14.54925442703209
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Ag	10.48826339359891	10.48801284713444	20.59886602221422
Ag	6.35768034972875	8.39842025707168	10.45071051517197
Ag	8.42673209260401	8.42679364928556	16.53593264905647
Ag	18.64235161088142	16.60162803828519	10.45069113938896

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 Ag 4.33358237954266 14.51828655853444 10.48373236799542  
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 Ag 8.39828468091946 6.35759884714723 14.54910131263620  
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 Pd 14.55043234354585 8.41393451208707 14.52758021149554

Pd	12.49999319224589	18.66274436270713	10.46351750518536
Pd	14.55044474121424	8.41399808683003	10.47261462468616
Pd	10.44953384149204	8.41396017532285	10.47256141733033
Pd	12.50008548090483	14.52529623047269	6.39771674362223
Pd	12.49994789182550	14.53886479452435	10.49668132474929
Pd	16.58604208420159	14.55059217775068	14.52736261559077
Pd	12.49992956508256	18.66289657618679	14.53629814132881
Pd	12.50001138554247	10.47465123466142	18.60226916893636
Pd	16.58603476477584	10.44966836138405	14.52771075600376
Pd	14.53894671945943	12.49985248523566	10.49696446466751
Pd	10.44952356064923	8.41406252994822	14.52754920038840
Pd	8.41374126363811	14.55050087236285	14.52740959564227
Pd	12.49998860202491	10.47482946789767	6.39813889173051
Pd	10.47481381734418	12.49993578553337	6.39777140129445
Pd	12.50012683597317	10.46132929369530	10.49680145601305
Pd	12.49998711695618	6.33726855646791	14.53650506396481
Pd	8.41384770110194	10.44963759435010	10.47256001183176
Pd	8.41404107873067	14.55043506831002	10.47223762019503
Pd	16.58609295209687	10.44960790329224	10.47254461274852
Pd	14.55055466442995	16.58609340958003	14.52755405681697
Pd	10.46113390180209	12.50001868232334	10.49673536370124

**Pd<sub>40</sub>Ag<sub>161</sub>LEH-606.586**

Pd	8.47495725194395	12.58416397684666	16.66501210817239
Pd	14.58310776358015	12.60263003676233	14.64868562288645
Pd	10.49213970893531	16.69259223825999	14.63848915639302
Pd	12.52856750834918	8.50132426684119	8.53546203375618
Pd	18.65856583622162	12.58277674798770	14.61808839964610
Pd	8.47884680222667	12.58103015220892	8.56276835841693
Pd	10.49392590873357	16.69629934413355	10.55187736454310
Pd	14.58182217039687	16.69902609725166	10.55169825118150
Pd	8.47764990018812	8.49165303166922	12.59172913013810
Pd	14.58466539191872	8.51095690160479	14.64814902542970
Pd	14.55755274633955	12.57929730286503	18.76133503751124
Pd	10.50813972945972	12.58044817364860	6.49198965818971
Pd	10.50416068385296	12.60123226890959	10.57959607507058
Pd	12.53250810869395	14.63267055344384	18.77353380719212
Pd	6.42170179513771	12.58219507576975	14.62194590102084
Pd	6.40767920930688	10.53486048994500	12.59274792887635
Pd	12.52835372022242	6.42567506687655	14.67195119473722
Pd	18.66272408605067	12.58390837075091	10.56686586262173
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Pd	18.67740687996171	10.54013309492936	12.58500787606608
Pd	14.58231149315360	16.69751511504530	14.63513594654900
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Pd	12.52909574997130	18.78134365186078	14.64645671049601
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Pd	12.52867934214910	10.53685182823953	6.46612196185323
Pd	16.59713097336398	12.58805740377228	16.66856189688075
Pd	10.48716157566739	8.50972711887695	14.65653533269130
Pd	10.50603681775644	12.57569836011084	18.75578843539425
Pd	12.53138613270585	18.79585583138186	10.52093302636970
Pd	8.47347206715183	16.71112276722927	12.58762157290567
Pd	12.51775980667961	6.43401483539521	10.53639819041015
Pd	14.55739546870482	12.58559572120468	6.48339986670828
Pd	12.53109607280818	14.64482319687990	6.46661873807214
Pd	18.67187364532136	14.63913910317866	12.58909348677002
Pd	16.60115364174997	16.71685085964952	12.58328714886909
Pd	12.53049049515138	10.53382958463146	18.78380576170416

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Ag	18.62674507874305	16.69255424340336	14.61568745097757
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Ag	10.50838500463650	14.61154518351312	16.68544971657956
Ag	16.60758102100711	10.56166954486557	10.57391172061612
Ag	4.46953857163049	8.49956136169898	12.58444441433156
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Ag	4.41895331929305	14.60338768416765	10.59108303518085
Ag	4.42872473430303	12.57997985036637	12.59423756232827
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Ag	14.56607811467370	14.61974409632863	8.53603010166641
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Ag	12.52560222263040	16.65979881398120	4.51856814072190
Ag	10.51928460147724	20.80041544572984	10.55871581631121
Ag	8.47274178931562	6.45802877912462	10.55611554160667
Ag	4.41488221958743	10.54767959688896	10.59392988793337
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**Pd<sub>105</sub>Ag<sub>300</sub>L<sub>10</sub>-1310.065**

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Pd	9.90182219990625	13.99999544228532	5.84791503457670
Pd	11.94477255923914	16.05523529725946	5.85399727234025
Pd	14.00003079797826	13.99998236888075	5.87366825682907
Pd	16.05526917257195	16.05525710231879	5.85397276707967
Pd	18.09818299527251	13.99999295327208	5.84792778968097
Pd	14.00000789936137	18.09819206579468	5.84790785813948
Pd	11.94418959768411	7.87537214539756	9.91783438554047
Pd	14.00002014726944	5.81103267093751	9.92311309435221
Pd	16.05585670599476	7.87535116612419	9.91780877271460
Pd	7.87534616479388	11.94415261379266	9.91782697503615
Pd	9.90453524968961	9.90452837669195	9.91626535215687
Pd	11.96425393864626	11.96421902663857	9.91636414009168
Pd	14.00004827504953	9.90918457400608	9.93143464460738
Pd	16.03580111444647	11.96421369290391	9.91633824260058
Pd	18.09547450262657	9.90451042862998	9.91623605062160
Pd	20.124611120297488	11.94415592143370	9.91780995083183
Pd	5.81100339544507	13.99999867247818	9.92308337761105
Pd	7.87530721462983	16.05584025001563	9.91783363562988
Pd	9.90917687957845	13.99997556508996	9.93146856305384

Pd 11.96425545619645 16.03577031659913 9.91641519143470  
Pd 14.00002929545022 13.9999998070883 9.89653484833657  
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 Ag 18.07777646746438 16.03972575968042 20.08179859807756  
 Ag 20.11982249758132 13.99997403724823 20.05806863571502  
 Ag 20.14690641993505 16.06714400705612 22.17040284013131  
 Ag 22.14872888912223 13.99997699327038 22.14641459426342  
 Ag 22.16026973264537 16.06041203955144 20.11934163141592  
 Ag 24.12958506821457 13.99997220832848 20.09333015896525  
 Ag 7.86983398979184 18.09281964353935 20.11397641960674  
 Ag 9.89397992129328 18.10601745733165 22.17444236814444  
 Ag 9.90717419620333 20.13017107143502 20.11399624983677  
 Ag 11.96030441318572 18.07775843604524 20.08172139720070  
 Ag 11.93285213612630 20.14691623614016 22.17038641551339  
 Ag 14.00002554179114 20.11987649935629 20.05807303771218  
 Ag 16.03977500321593 18.07776634347141 20.08178718469317  
 Ag 16.06717609786847 20.14691308009662 22.17039930077011  
 Ag 18.10608741841240 18.10606668250972 22.17458399923811  
 Ag 18.09284813351320 20.13015280774825 20.11402610600589  
 Ag 20.13015870245597 18.09279673587757 20.11401726422572  
 Ag 11.93953788731945 22.16030337276398 20.11939974146212  
 Ag 14.00002635470241 22.14881066327269 22.14651183383996  
 Ag 14.00002739404842 24.12952689332943 20.09343891101744  
 Ag 16.06048194162675 22.16028762844744 20.11937809834147  
 Ag 14.00001870890596 7.92401414625008 24.12262855198702  
 Ag 9.95022322919758 11.98126177179004 24.13997308188944  
 Ag 11.98129350157331 9.95017609907693 24.13997355850433  
 Ag 14.00002928303089 11.97920376003477 24.12105594022826  
 Ag 16.01873930891556 9.95013888898479 24.13998661221911

Ag	18.04980775557201	11.98122934131897	24.14003725560839
Ag	7.92403987007900	13.99998511652663	24.12267772536441
Ag	9.95022517063811	16.01871827762452	24.13997751408798
Ag	11.97928562947927	13.99997511514151	24.12105136265657
Ag	14.00002985533582	16.02074421202812	24.12109093271142
Ag	16.02077846679560	13.99997576109697	24.12110113628381
Ag	18.04981211163576	16.01872312302032	24.14006329203344
Ag	20.07593708296826	13.99997294595134	24.12269246567609
Ag	11.98128200917939	18.04979348850502	24.13995812895626
Ag	14.00001058519727	20.07597839926301	24.12266350711985
Ag	16.01873921995627	18.04981622743930	24.14002146840248

**Pd<sub>105</sub>Ag<sub>300</sub>LEH-1311.749**

Pd	13.99430747005812	9.89713960202321	5.82289624747368
Pd	16.04746831016970	11.94796948205325	5.83298571002103
Pd	9.90589946745590	14.00391138111094	5.83046575118397
Pd	11.95423412997714	16.05632952575797	5.85120987512868
Pd	14.00445807152686	14.01433445780278	5.85243518994428
Pd	16.06210937614328	16.05938596944569	5.83132752085711
Pd	18.10579887481410	14.00181206892760	5.83365298773912
Pd	13.98844900193470	18.08403898000453	5.85445321226040
Pd	14.00537779861430	5.82760282946942	9.91051591088351
Pd	14.00018291648446	7.86926315001244	7.86669588433065
Pd	9.90686224072172	9.90068443913224	9.89934673380588
Pd	9.90750883566920	11.94079973060482	7.88569330610520
Pd	13.99586656595868	9.90737142774124	9.89450903456713
Pd	18.10235958688042	9.89420633320152	9.90101158230579
Pd	5.82766436785695	13.99989632140947	9.90465245929078
Pd	7.87760902696412	16.05188767909364	9.90435245931075
Pd	9.91293144530677	14.00451413692937	9.91356905448405
Pd	13.99994073507249	14.01364893224019	9.91144002870496
Pd	16.04397006871549	16.04352648327775	9.90642364621534
Pd	18.09689039001720	14.00979959400174	9.89874486304773
Pd	20.13172625296759	14.00036910328401	7.87412951296238
Pd	22.16351119509908	13.99974661807643	9.90487251486408
Pd	9.90016121500411	18.09417403569859	9.90617424483455
Pd	11.96300881156933	18.09281802695338	7.87406657555717
Pd	14.00148996047642	18.08600261369141	9.90598738384071
Pd	13.99767034452977	20.09311343403879	7.87972559646620
Pd	18.10565084095522	18.09891593825311	9.89861726645348
Pd	14.00212052868422	22.14886185914442	9.90794231447858
Pd	9.91068101738277	5.83913124353278	14.00854419694285
Pd	11.94032516311572	5.82915167066721	11.94312729768065
Pd	16.07044728412355	5.84573000720160	11.95399182477657
Pd	18.09556329273400	5.85014941770725	13.99353545891869
Pd	18.09914328718442	7.85905470062435	11.94798957487536
Pd	20.12272301538944	7.87286070842503	14.00258631035554
Pd	5.81807641243953	9.89981010611258	13.99979177252163
Pd	7.87859449947407	9.90084946550060	11.94218661253086
Pd	9.90612055106019	9.91087483800652	13.99775983880754
Pd	11.96495265318242	9.90931740353992	11.95350192099439
Pd	14.00823501190249	9.89039994532386	13.99498144960131
Pd	18.09393648982595	11.97481504431580	11.94629451291463
Pd	22.14128654319355	9.87952232932686	14.00653450221327
Pd	22.15770882402600	11.93694679496873	11.93766247876450
Pd	5.84107888655705	13.99565125604549	14.02129556790137
Pd	5.83469680640653	16.03424679334131	11.92738508798499
Pd	9.90220356792748	13.99813287861676	14.00261356853288
Pd	11.94880030054824	14.00322264688220	11.94930130889141
Pd	13.99987380671211	14.00973227749228	13.99163653946720
Pd	16.04971963534555	16.04810028699162	14.00396705919439
Pd	18.10563410981595	13.98758151567122	13.99611860940999

Pd 22.12558512177089 14.00561801110374 13.99583103964517  
Pd 22.15419148533381 16.06136528281360 11.94531428737885  
Pd 5.83102791059049 18.09672806199990 14.00171293931805  
Pd 7.86279428515098 20.12062912827546 13.99856866215030  
Pd 9.89510724658921 18.09911635892569 13.99547584133894  
Pd 11.96197940184418 18.09594442831044 11.97235274364448  
Pd 14.00641834265045 18.09210344520568 13.99217115784921  
Pd 18.09453681928031 18.10824335204905 14.00303190948035  
Pd 18.10033711604457 20.13220307755672 11.93249279010207  
Pd 22.15700593231364 18.10809291812888 14.01405111225749  
Pd 9.88869769523066 22.15764558424677 13.99791334307764  
Pd 11.94128471310868 22.15195688428695 11.93944924382082  
Pd 14.00581780735764 22.12790166521981 13.99113276169953  
Pd 16.07056334426009 22.14170484416930 11.95161169747314  
Pd 18.09694777383976 22.15672226270448 13.99577986027921  
Pd 9.90215742078349 7.88355966458704 16.05811689464475  
Pd 11.92938747964471 5.85494548620013 16.04248809820212  
Pd 14.00329634293758 5.84049822497759 18.08554437616170  
Pd 16.07014067210670 5.83531133779771 16.06300510235254  
Pd 5.82228803412456 11.94590252435453 16.05764717656432  
Pd 7.87467119687266 11.93148767197546 18.09956440201388  
Pd 9.89389498183796 9.90157535761096 18.09861342467682  
Pd 11.96841369393326 11.93820472327203 18.08745199046889  
Pd 14.01553065661395 9.90704981427880 18.10405459229172  
Pd 16.03652637570775 9.91352700500557 16.04330974506314  
Pd 18.10573590023387 9.90518797805220 18.09378964898609  
Pd 20.13693827871118 9.89685122403338 16.04991618484489  
Pd 22.14168305970900 11.92434895999037 16.04741602971843  
Pd 5.82482704717242 16.06175360634276 16.07423346336926  
Pd 7.87238610108084 16.07189334483787 18.09944532563398  
Pd 11.97484493237651 16.05867172965322 18.08494546234285  
Pd 13.99368096902703 13.99659578375872 18.10124816761778  
Pd 18.09220663019117 13.99769560306929 18.10026304201378  
Pd 22.15165300804719 14.00116749686337 18.09680778330830  
Pd 22.13440185968181 16.07681667013608 16.05324539723368  
Pd 9.89745853055207 18.09889604540930 18.10343734228497  
Pd 14.00724824528016 18.10512099034667 18.09642318719476  
Pd 18.09930352793367 18.10992753257047 18.08848105602929  
Pd 18.09826327401188 20.12221376008170 16.06152381312351  
Pd 20.10402203940064 18.11278460987379 16.05371283172463  
Pd 11.94142175757449 22.15060513524179 16.05156396493533  
Pd 14.00828766767986 22.16259790722219 18.09872908383560  
Pd 16.07980852411714 22.14795355515923 16.04808807622452  
Pd 14.01154019010205 7.90221026820284 20.12215366383525  
Pd 11.95702023756549 11.94000311498382 22.16023786674780  
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Pd 16.05958041070293 9.89788113223689 20.11560921865246  
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Pd 9.90696932802751 14.00283278917841 22.15085836001697  
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Pd 18.09800031233585 13.99034878205443 22.18607436461259  
Pd 18.10132892797339 16.07044583840178 20.12244484185581  
Pd 14.00729331627929 18.09997397846027 22.17928902588260  
Pd 14.01395842233854 20.13443341646906 20.13349311375937  
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Ag 9.92929190630760 11.97560204640670 3.81290844211975  
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 Ag 18.06621873707762 11.97693297025446 3.85644718356258  
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 Ag 5.84012431296962 14.00035143193671 5.83559789268463  
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 Ag 7.83684880231957 16.07566733359880 5.80204422852537  
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 Ag 11.97781924649146 14.02847703662397 3.84520608548050  
 Ag 14.00506674881904 16.03718800301827 3.86851827186515  
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 Ag 11.95046246314543 20.11255915407870 5.86106298422246  
 Ag 13.99960455216410 20.06708551449787 3.87203688770220  
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 Ag 13.99596612703820 22.12028213602262 5.87403125703363  
 Ag 11.96967121279563 3.85203524095216 9.93782379414972  
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 Ag 16.03795125174202 3.85465431013058 9.94211057622637  
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 Ag 22.18192919090253 16.06328270397916 7.85402215961090  
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 Ag 13.98783150418763 7.88037935759836 11.94544165133833  
 Ag 16.06580165905254 7.87084915353397 13.99856439842375  
 Ag 20.12471186991720 5.86084742044814 11.96245103573405  
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 Ag 3.81608172552048 9.92643688808258 11.97351227172758  
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 Ag 5.84919423256360 11.94779022427724 11.96565510252295  
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Ag	3.88250263716653	16.03692607371093	14.00106505593551
Ag	7.86206572893372	14.02594805321490	11.94316492256138
Ag	7.84145193234518	16.03972000731959	14.00612747686833
Ag	9.91910002921308	16.04864206429109	11.94722712786833
Ag	11.95417684661659	16.04009179199771	13.97241290109091
Ag	14.00908572118287	16.04686992937761	11.95949859347591
Ag	16.05580984349250	14.01769572753259	11.95961928142792
Ag	18.07358638442962	16.04520532485733	11.96306193130519
Ag	20.13572147521453	13.99527342066806	11.95686001020267
Ag	20.14677732019160	16.07159021205842	14.00564160087011
Ag	24.11781869040171	14.00076097801213	11.97747053505929
Ag	24.10248904233411	16.03151132690943	14.00627928416598
Ag	3.86242606666950	18.05181368396614	11.96691413290711
Ag	3.85467805962040	20.06487202132137	13.99655283728357
Ag	5.82908075396760	20.14036949805989	11.93768880151730
Ag	7.86233640169731	18.07816153325233	11.96120344874840
Ag	9.91390865148590	20.10193392731360	11.96198251848342
Ag	11.95561071426055	20.13300614401687	13.99036493839602
Ag	13.99592618968304	20.12470381750193	11.95992987338040
Ag	16.06416845824105	18.07589402889610	11.96012195464701
Ag	16.08635393267661	20.14598502620909	13.99103101481575
Ag	20.11814178621962	18.10130791779316	11.95530267555764
Ag	20.08561092827449	20.11387584643964	14.01212165774097
Ag	22.19286987243751	20.16235105828758	11.94126017733172
Ag	24.13539286303895	18.06726264211084	11.98700897814772
Ag	24.13162784721227	20.09883596431909	14.01168872189450
Ag	5.86690845080779	22.13110715281792	13.99803121356756
Ag	7.85873088362928	22.16058520737403	11.93844942711131
Ag	7.91247385037207	24.14098402388408	13.99388000095608
Ag	9.94213699569192	24.13939308566411	11.97819515194540
Ag	11.97146090647523	24.10152140619200	13.99717433596617
Ag	14.00857223898871	24.10600712867161	11.96716099761361
Ag	16.03073433871803	24.11083391881767	13.99640585733315
Ag	18.06551655745965	24.15190928154427	11.98381525672438
Ag	20.13725955686176	22.16479218224377	11.94717118710121
Ag	20.09833637723666	24.12763109306621	14.00254962245498
Ag	22.16570993036812	22.17029189676919	14.00702770972469
Ag	9.93132831247597	3.84377402649799	16.02643854644062
Ag	11.96697525882539	3.87404460168509	18.05362218557379
Ag	13.99710339246650	3.86321002168159	16.04407045001164
Ag	16.03565519693324	3.85604584601772	18.06652011723730
Ag	18.07531664713613	3.85515563242897	16.02050214209375
Ag	5.78917444324964	7.83361854115304	16.07844885749084
Ag	7.85887428429840	5.84418781810401	16.05640244212132
Ag	7.86015080482941	7.85864308145543	18.09923868138152
Ag	9.89233401670442	5.83723472930863	18.09392083491037
Ag	11.96342717877504	7.87613005696176	18.08536543598056
Ag	14.01640334586910	7.88001089482364	16.05234565655203
Ag	16.04266676841257	7.90583387532069	18.08961761784312
Ag	18.13089140174144	5.80784715875336	18.12652051218897
Ag	18.09326208408842	7.89482250577532	16.05077270440108
Ag	20.13717026908024	5.83353940025820	16.05136365578702
Ag	20.14216569492609	7.87146057153908	18.10818148229493
Ag	22.14696544065709	7.86926647721668	16.04516223411792
Ag	3.85150175875551	9.93109295920507	16.02423848894450
Ag	3.82076009681811	11.98383117886436	18.07407637250600
Ag	5.80936569962080	9.90344509036729	18.11240101087875
Ag	7.86691745139473	9.91452061693757	16.05466830649146
Ag	9.91638059168686	11.95143876725871	16.05710220279987
Ag	11.94385688618018	9.91192955760335	16.05936036268588
Ag	14.00491044620707	11.93843848611551	16.05540887599678
Ag	16.06343440593666	11.92858673373748	18.09691848432989



Ag 18.09317571862559 11.94113479656865 16.04763245674762  
 Ag 20.12379712227531 11.94101798891832 18.08469250151439  
 Ag 22.18491199334969 9.88474792514517 18.10362043395634  
 Ag 24.15082615382531 9.93424330759314 16.01918673251314  
 Ag 24.12586412022713 11.97055636260445 18.04893195071331  
 Ag 3.83382251575374 14.00789337797425 16.02949626047806  
 Ag 3.81645469916874 16.02322537786865 18.07994404823332  
 Ag 5.87141790719523 13.99996582432966 18.08306344081525  
 Ag 7.85419286713409 13.99774340619769 16.04672051642753  
 Ag 9.89798093028281 14.00283031138987 18.09312191703079  
 Ag 9.91497640636658 16.05698497396910 16.05441823421657  
 Ag 11.97992127368958 13.99884935566173 16.05958027871686  
 Ag 14.01094620479803 16.04758386031515 16.04042730703713  
 Ag 16.04652076037370 14.00627039300052 16.03197852491730  
 Ag 16.06733881857410 16.04852255641980 18.09777425523880  
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 Ag 20.10083804156139 16.05812850854413 18.07747315212750  
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 Ag 24.11904527259045 16.02843293736470 18.04940256369878  
 Ag 3.84296337825580 18.06259847730389 16.03227481003502  
 Ag 5.80755491607915 18.09965930811951 18.11369705186087  
 Ag 5.81989962466687 20.14242323356935 16.05943134861889  
 Ag 7.86470185716888 18.08879962713365 16.04005293573752  
 Ag 7.84464898049650 20.15597718904866 18.12138342485931  
 Ag 9.89985241490633 20.12544833719740 16.02957456488507  
 Ag 11.96534278304590 18.08303237736892 16.05378763318160  
 Ag 11.97266373252030 20.13715358390781 18.09794689777444  
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 Ag 16.04714242641531 20.12789630186597 18.07981275021888  
 Ag 20.11507725813182 20.12248094442170 18.08706626439177  
 Ag 22.15632988309561 18.11319528686977 18.09997740865821  
 Ag 22.16183897015476 20.13946254448780 16.06018793494023  
 Ag 24.14867268494163 18.06626008108127 16.02633071568895  
 Ag 7.84756672439965 22.17427221739683 16.05785756382956  
 Ag 9.88295355358466 22.19641542608725 18.11588520257435  
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 Ag 11.97603672899350 24.13691149625291 18.05066073094797  
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 Ag 16.03090438510557 24.13622711615943 18.05182616359052  
 Ag 18.11732502575553 22.17767170041689 18.10838905530474  
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 Ag 20.13089434010974 22.17611299781532 16.06082274201487  
 Ag 14.00593699015962 3.86984087598274 20.07285141710389  
 Ag 9.87428617805640 7.85407275818477 20.15611135791485  
 Ag 11.94856581013165 5.84468072575725 20.13955097632195  
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 Ag 16.05578167087615 5.84429626456642 20.12714929555577  
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 Ag 5.83203950400716 11.94474607847079 20.13404503384848  
 Ag 7.85571216785420 9.89575609241428 20.12674764894140  
 Ag 7.85899646909117 11.95549794021152 22.15525975150394  
 Ag 9.88148174679373 9.88111896120516 22.19133172000286  
 Ag 9.91505211270769 11.95465290057638 20.11066257256025  
 Ag 11.96271026465152 9.91734409804264 20.10710817419493  
 Ag 13.99642878581865 11.94614726374083 20.11635074091026  
 Ag 16.05424445201860 11.95366967624411 22.13153612542379  
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 Ag 20.14205991413429 9.89642246254814 20.14568847687591

Ag	20.12838495025438	11.93968898808841	22.16387327663104
Ag	22.19196199762968	11.93275329090226	20.16198473021751
Ag	3.82166566152454	13.99986673655298	20.10962041849997
Ag	5.84418896292531	14.00004705575725	22.12672175885676
Ag	5.83052705423937	16.05550174635470	20.13657679126252
Ag	7.86489613335974	16.04400460422930	22.15142229981513
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Ag	11.97182033020338	13.99688710174009	20.13233171677457
Ag	13.98638890765284	16.04182220865534	20.12242757344149
Ag	16.08568745736166	13.99767335182212	20.11711330724177
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Ag	20.07423829694435	13.99725014335233	20.12204496543978
Ag	20.13241739106654	16.06012244819139	22.16851075748630
Ag	22.16273132511422	13.99901152038970	22.16735246426028
Ag	22.17714319614699	16.07018928649345	20.15576317631831
Ag	24.12514939059101	14.00214674381459	20.07477060063638
Ag	7.85976601491155	18.10330077446408	20.12860625933127
Ag	9.88941274666887	18.11711201244428	22.19063771211439
Ag	9.88148882128032	20.15071250467257	20.15463386111904
Ag	11.97547634672859	18.08993450191522	20.11543659156614
Ag	11.94595359142469	20.14600355332631	22.16400332124365
Ag	16.04640413679785	18.10447864907449	20.11602702114485
Ag	16.06545448182681	20.14206676110928	22.18282120612536
Ag	18.12029678310780	18.11778246443732	22.20021378019328
Ag	18.12797447150127	20.16295146703987	20.16176487844880
Ag	20.12429364283896	18.10410793622908	20.14888192239469
Ag	11.94192032584377	22.17807999316874	20.15047875891989
Ag	14.00266448468621	22.14413192015115	22.13974393978862
Ag	14.01139258281824	24.14255842247101	20.06712099225082
Ag	16.06957117949883	22.17574819726454	20.14733008393485
Ag	14.00473499128001	7.92363399467518	24.12593492338068
Ag	9.93548515253038	11.97566970650408	24.12758391841111
Ag	11.97270362064406	9.93022920402906	24.13924256455659
Ag	13.99017482527397	11.96697146011613	24.15699588054791
Ag	16.03638957456655	9.93204932489015	24.17369292342128
Ag	18.08147508775647	11.97145813969677	24.18924552960331
Ag	7.91355776101937	13.99969174947100	24.13040633997517
Ag	9.93650124669745	16.02552921167562	24.13922922980581
Ag	11.96280546483937	13.99908962862846	24.11803436410255
Ag	13.98989767410224	16.02841587898330	24.15963845368933
Ag	16.02149257728770	13.98741221562136	24.18600037808940
Ag	18.07712954944750	16.01941309790432	24.18419451779942
Ag	20.11003445100823	13.99911741206748	24.13120815752262
Ag	11.97057834749138	18.06499203450038	24.14990382342751
Ag	14.00188315943613	20.07670014381744	24.14961303195987
Ag	16.03745527845730	18.07077833243822	24.17543929386293

**Pd<sub>43</sub>Ag<sub>158</sub>L<sub>1</sub>-614.310**

Pd	8.45536046188404	12.49998407311585	16.54466115601103
Pd	12.50001376932069	14.51399028168348	14.51402104147062
Pd	10.46499989198229	18.61608722848305	12.48643835991106
Pd	12.50000620948422	10.48596575466539	10.48601760595337
Pd	12.49999575977038	8.45534114813002	8.45537865512130
Pd	14.53498848349560	6.38397843415947	12.51359254631877
Pd	14.53978978678269	10.46020558804343	16.55293782555279
Pd	18.61602162837903	12.48642366168179	14.53498013464448
Pd	8.45175622641662	12.52116617059853	8.45177394120041
Pd	10.46021256185161	16.55297777759159	10.46020401598236
Pd	12.52120390432336	8.45177381879032	16.54823985791485
Pd	8.45535814584131	8.45535275061143	12.50004833437475
Pd	14.53978753961102	8.44706154738880	14.53979597524405
Pd	14.53499619069120	12.48640736896044	18.61600611909617

Pd	10.46498970882713	12.51355570618175	6.38391814605817
Pd	10.48525885169860	14.51473335015369	16.53332929960251
Pd	12.47882507499955	16.54825800799504	8.45172282985280
Pd	8.44701068085790	14.53977917743381	10.46023018838523
Pd	8.46669158932523	10.48523189632420	14.51479286138425
Pd	16.55291756420117	10.46020600453932	14.53979077856198
Pd	12.50001127301006	16.54463568893290	16.54463495408760
Pd	12.51359428257662	6.38399561989049	14.53499172900978
Pd	14.51401176997520	12.49998103602991	10.48599070276082
Pd	18.61598656986885	10.46501786095457	12.51360937038458
Pd	14.51476678118637	16.53330639557302	14.51474292860220
Pd	6.38392549900579	12.51356085918801	10.46503097835009
Pd	10.48599068860431	10.48597245291345	12.50004610706694
Pd	16.54465247786903	12.49998608814267	8.45533073457907
Pd	6.38392621286685	14.53499399438660	12.48645291805025
Pd	10.48599422591581	12.49997428883854	14.51403860520551
Pd	14.51401610918271	14.51399332112418	12.49999474481076
Pd	10.48525008878287	8.46666550561103	10.48528936632900
Pd	16.54822299215135	12.47878926654377	16.54821056885272
Pd	12.48643099242783	18.61608627349440	10.46500163411807
Pd	8.45176105236095	16.54824376845664	12.47883270553874
Pd	16.53332363643937	14.51474272124163	10.48523028313591
Pd	12.48643428326137	14.53499787729151	6.38388856943318
Pd	10.46021154052030	14.53978720645290	8.44701842081242
Pd	12.50000690452979	12.49997310553914	12.50002361068745
Pd	16.54465516982220	16.54464140074294	12.49997391010301
Pd	12.51358925344823	10.46500474660002	18.61602137923889
Pd	16.54821425676052	8.45176010262104	12.52120659969197
Pd	14.51476038808370	10.48522669380239	8.46668920860417
Ag	20.59366099360917	8.46635951519752	12.50587984871059
Ag	16.54852201304119	12.49099294038516	4.36671670396400
Ag	10.46447346594365	4.29120841567806	10.46449402078794
Ag	10.46081103407083	10.48759148458051	16.55377279145556
Ag	12.50792022472399	12.49207025349302	16.57645152878009
Ag	18.62556472256755	16.59704016603782	14.54802778982484
Ag	10.46880688287457	18.58706169595928	8.44402624044364
Ag	14.53233110392562	12.49579031219376	14.53232748228371
Ag	10.46766675545869	14.53232815243916	12.49582284554937
Ag	18.58250184191111	14.52177805824148	16.54858785293946
Ag	10.46976183871160	6.38597648565375	12.49537179410213
Ag	10.48760272486965	16.55375358776412	14.53921010537043
Ag	14.53119678805083	6.41290615464367	16.55605920258026
Ag	16.54853100204251	20.63327024158418	12.50896657777848
Ag	8.43430009071991	8.41430720398832	8.43433462227099
Ag	10.47138775443722	6.40890801135116	8.45592296600426
Ag	16.56001371379514	8.43999315675921	16.56001273980047
Ag	12.48892458684118	18.58218681649956	6.41782584233747
Ag	16.57643646119605	12.49209214078984	12.50789970599758
Ag	10.45194800654672	18.62556983255561	16.59703214949126
Ag	16.54861795827741	14.52177330513797	18.58247258141591
Ag	14.52860483492564	8.45588003555671	6.40891007633940
Ag	18.57752964218261	12.49999504423138	6.42244958164238
Ag	20.63326457776139	12.50897172516188	8.45147199035268
Ag	12.50588085214650	4.40634560667773	16.53363499968716
Ag	10.47140311469202	16.54409948457071	18.59107618285077
Ag	16.56570381049283	16.58566835539253	16.56567321846966
Ag	18.58214970155269	6.41788640854446	12.51106124236017
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Ag	8.45135768359996	10.47819362910652	6.41748729990984
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Ag	12.50911881217894	4.33036713632254	12.50914561885579
Ag	14.53921649995590	16.55376479590056	10.48763324369083

Ag 14.51519685216506 10.48481249711292 20.62268641847920  
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 Ag 6.41746581046155 16.54862733916451 14.52180779594086  
 Ag 12.49208649036140 12.50789480633527 8.42352193167445  
 Ag 8.44623775536966 14.51239182504750 14.53922478214534  
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 Ag 20.62270005851163 10.48484619801735 14.51520087769624  
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 Ag 12.50420115886368 10.46765703848395 14.53235199588116  
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 Ag 8.45149388441900 12.50899695002573 20.63325494355337  
 Ag 12.49100790473401 16.54851618455906 20.63322490330994  
 Ag 16.55605990376487 6.41289616063181 14.53118296560999  
 Ag 4.40630551805124 12.50581046721627 8.46636331123310  
 Ag 10.48765107950985 10.46077387268295 8.44625126508415  
 Ag 14.54806803663869 16.59703632624267 18.62553435186049  
 Ag 4.29116346407011 10.46446210247202 14.53554923108524  
 Ag 18.58213279289177 12.48894096240847 18.58210354152193  
 Ag 12.50466767198492 18.61404534603131 14.53022987933199  
 Ag 14.52179694136182 16.54864201593734 6.41742796320719  
 Ag 6.40890776146320 8.45588184537179 14.52864670505188  
 Ag 12.49209458853146 16.57646852149311 12.49209444256003  
 Ag 10.45193044108154 8.40294073480329 6.37444095385915  
 Ag 20.70882110914007 14.53551826404700 10.46446471880495  
 Ag 12.50001233062667 18.57752377273732 18.57749904192564  
 Ag 14.53232770629272 10.46765815627301 12.50420673462210  
 Ag 14.51311862673436 4.36167905784496 10.48983860762152  
 Ag 12.49413930169469 20.59371214552573 8.46633775951833  
 Ag 20.63832991394309 14.51019135625690 14.51309306447932  
 Ag 16.59705570558958 18.62557845774626 10.45190555650074  
 Ag 12.49099551325047 4.36675411199845 8.45150446980558  
 Ag 8.46631646110150 12.50580991744243 4.40630794190299  
 Ag 8.45148465308214 4.36674846511397 12.49103846423180  
 Ag 14.51022112652025 20.63838396526774 10.48682913400319

Ag 14.54805191808708 6.37444519635106 8.40298168918454  
 Ag 14.52178230906203 18.58256058420901 8.45133212128909  
 Ag 16.54411424259637 10.47138048674250 6.40888739817448  
 Ag 12.50465535483074 10.46974469405050 6.38596496346272  
 Ag 12.49580121207324 14.53232880553687 10.46765687506741  
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 Ag 10.46976975248212 12.50464616766045 18.61402160647450  
 Ag 18.58709878779825 8.44394915166736 14.53118838676972  
 Ag 6.37442842984216 8.40294318050127 10.45197430980107  
 Ag 12.51107257353364 6.41785663253411 18.58212515257829  
 Ag 12.50901128989492 20.63325931059303 16.54850506276162  
 Ag 10.48479653737720 14.51518534025727 4.37727018493603  
 Ag 14.51234147479062 14.53919063737722 16.55374414373355  
 Ag 10.46881687970262 16.55596176754407 6.41291250249372  
 Ag 8.40297361007732 6.37445090629219 14.54808560752923  
 Ag 16.56569768451312 8.43429516607554 8.41432877998456  
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 Ag 8.44402860715504 18.58706024547701 10.46882058138139  
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 Ag 4.36163263470663 14.51314021982036 14.51022401794951  
 Ag 18.59110381909917 16.54411806460815 10.47135557511678  
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 Ag 12.49089323469047 20.66969270569939 12.49086630348702  
 Ag 14.53024681273687 12.49533154167799 6.38594120911236  
 Ag 18.61402260148217 14.53024514128786 12.49531551142776  
 Ag 18.62556079569011 10.45193121308511 8.40295129308324  
 Ag 4.40630167972330 16.53366453372986 12.49419912768886  
 Ag 16.55605855292488 10.46881887196307 18.58708932516500  
 Ag 12.50791124286911 8.42354994588285 12.50793469986104  
 Ag 14.51313039410068 14.51017734445000 20.63829388219191  
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 Ag 6.41783199967001 12.51105482830663 6.41786285670396  
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 Ag 12.49417184767636 16.53367478633917 4.40627368439614  
 Ag 10.48476949002088 20.62272623543255 10.48482870919987  
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 Ag 4.36163612188180 10.48979606550723 10.48689878302037  
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 Ag 10.48685198058676 10.48978410032072 4.36163796932392  
 Ag 14.51239123503885 8.44624349447453 10.46081721112771  
 Ag 6.40889540775543 10.47139793351415 16.54411048284697  
 Ag 8.43996109922461 16.56003203649731 8.43996176317236

Ag 16.53365895991441 12.49416504094052 20.59363130001339

**Pd<sub>43</sub>Ag<sub>158</sub>qL1<sub>1</sub>-614.433**

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Pd 10.48412518427357 18.62357728126307 12.49716651252093  
Pd 12.48518807614924 10.45595443182244 10.49675446707719  
Pd 12.49531170389798 8.44991310089694 8.44571931107831  
Pd 14.50833902634005 6.40315924578236 12.52012107273437  
Pd 14.53949208384803 10.45839249772591 16.54771165268118  
Pd 18.61855136985940 12.48586802411566 14.54535029023050  
Pd 8.44932822070793 12.51316714056303 8.44450225280559  
Pd 12.50548312051147 16.56932042371492 12.51083556426579  
Pd 12.52155480539488 8.44937728534280 16.55387037118270  
Pd 8.44841299441713 8.44897027036606 12.50033061774152  
Pd 14.53005682552864 8.43512590938426 14.53649562753567  
Pd 14.53801316014758 12.48552910214716 18.61028311251517  
Pd 10.45680135076880 12.51059069743007 6.37530893240316  
Pd 10.49019735076386 14.51904917342287 16.53171316069603  
Pd 12.48919637321756 16.54575329921604 8.42592262784708  
Pd 8.43951357465319 14.52988811269658 10.45749226263890  
Pd 8.46483263134997 10.47718747134614 14.51380058549557  
Pd 16.55038027397601 10.45721360007756 14.54079413712206  
Pd 12.49651549135005 16.55349691699875 16.54833733693481  
Pd 12.51756121787404 6.39747090190763 14.51281114924397  
Pd 12.50279382866566 8.44033231446475 12.50858640609719  
Pd 18.61973547890246 10.46276624781643 12.51086464702570  
Pd 14.50937007254620 16.54511274166042 14.51495355512768  
Pd 6.38362868709198 12.51053026707168 10.46359675517400  
Pd 10.49351261504379 10.46727807744819 12.50226054272190  
Pd 16.56353324481723 12.49859693218116 8.43704393915184  
Pd 6.38013842982765 14.53258203530280 12.48774553666570  
Pd 10.48337770671767 12.49690091637941 14.51770623396351  
Pd 14.50352661774725 14.54610392745179 12.51557086993513  
Pd 10.49126311294691 8.46079021973816 10.49729913967204  
Pd 16.55187563823497 12.47607935878646 16.54738228829593  
Pd 12.49482206543212 18.61876301656663 10.48751615151633  
Pd 8.42536543906450 16.54729913580259 12.49067494022267  
Pd 16.54025041793682 14.53203064033446 10.49846679885440  
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Pd 16.55441553067410 8.45178436274887 12.52173785068764  
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Ag 10.46750618943351 4.29535209951608 10.46724225882451  
Ag 10.46292472871001 10.48532810152892 16.55050838680884  
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 Ag 16.58742278659856 12.48884097473357 12.52288697907232  
 Ag 10.45268223526531 18.62328436190020 16.59821858094066  
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 Ag 14.52819536191046 8.44907559659678 6.39703272067369  
 Ag 18.59126850752216 12.50028138939637 6.41071381037308  
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 Ag 16.56380609665021 16.58268136954780 16.56654607648592  
 Ag 18.58523882595102 6.42299502432391 12.51300260219744  
 Ag 8.44979912214907 18.58430853768969 14.52950171967402  
 Ag 8.44661097167880 10.47326491143471 6.41208346284908  
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 Ag 16.56265425379972 10.47510221660432 10.46319089673906  
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 Ag 12.51168027101202 12.49109380889223 20.66937765975743  
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 Ag 16.53586668173569 12.49123033529701 20.59205991418344

**Pd<sub>43</sub>Ag<sub>158</sub>LEH-613.976**

Pd 8.45620272708675 12.58634282147702 16.66217978868712  
 Pd 12.53711458024853 14.63468719154769 14.63609160382629  
 Pd 10.49730626871012 14.63391090422686 12.60217499105598  
 Pd 10.47877373817165 18.74301867118017 12.57965182979674  
 Pd 10.47353242158997 6.47362068584523 12.57069793497868  
 Pd 12.52852042044529 8.51609388018739 8.54682366989266  
 Pd 14.58714604521730 6.46376625261688 12.57288809102295  
 Pd 8.46506398833461 12.58410846723788 8.54639275476841  
 Pd 10.48424440311972 16.65373978229157 10.56104520961855  
 Pd 12.52550028075653 8.52733611872320 16.66531943354563  
 Pd 14.58642025088167 16.65514527830382 10.56225865736591  
 Pd 8.46667812470830 8.52602920373173 12.59321499140503  
 Pd 8.47744742603769 14.65112184510680 14.64219550515924  
 Pd 14.57215733583172 12.58479153502435 18.75273460753775  
 Pd 10.48414664149443 12.58407120915933 6.48285756446730  
 Pd 12.53749081742434 10.56550820114639 14.64773053566034  
 Pd 10.50260868299380 12.61375781994781 10.57467452098973  
 Pd 16.59874769779723 14.64851509080692 14.64111932350081  
 Pd 12.52924548427097 14.63299477910350 18.74080242668203  
 Pd 12.53195988015635 16.67562533945099 8.54851747549536  
 Pd 14.57823204907909 18.73723739956997 12.57991121937335  
 Pd 8.47753827726809 10.53893829166727 14.63701581092741  
 Pd 16.60097578449808 10.54639146402578 14.64984529535977  
 Pd 6.41820234664809 10.53880476099052 12.61568803898533  
 Pd 12.53161307389674 16.66366743216678 16.66718216040959  
 Pd 12.52489752976294 6.47019146573423 14.61748827530903  
 Pd 18.67382573299598 12.58666768774563 10.57431272334646  
 Pd 14.57439506415945 12.61380057135838 10.57175993816777  
 Pd 18.67308161804210 10.53892245195583 12.61558987819093  
 Pd 6.40784868358930 12.58665118921776 10.57567550410602  
 Pd 12.52804413268414 18.73671881978940 14.61975155765829  
 Pd 16.60593085828942 12.59144364939149 8.54290949713104  
 Pd 6.39568107178509 14.65028435174805 12.61105871422306  
 Pd 14.57906902066061 14.63099568081539 12.60198138713188  
 Pd 10.47979639074256 8.53779303268951 10.56207307591112  
 Pd 12.52813808605802 10.54329628287534 6.47354681740770  
 Pd 16.61842839933228 12.58958818281314 16.66328890355340  
 Pd 10.48749744867904 12.58347588877154 18.75414124148376  
 Pd 14.57780451341701 12.58667988692487 6.48603165607600  
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 Pd 18.67987114549406 14.64282874525130 12.61067243304386  
 Pd 12.52736958629700 10.54318816533587 18.73574249064611

Pd	14.58528794586111	8.53314720797462	10.54939415756626
Ag	20.62965918452691	8.52736028488686	12.58822275198635
Ag	16.55683499761988	12.57645100501584	4.51917036346256
Ag	10.51306357416392	4.43461740343488	10.56979267596017
Ag	10.50969487891109	10.56576851433428	16.66889851386304
Ag	12.53388208275493	12.59877684756766	16.73141656463103
Ag	18.65289378905105	16.66042529572605	14.64581271113551
Ag	10.49659770479415	18.70510970232511	8.53342121855279
Ag	14.58065727977569	12.61498597022542	14.64429401717276
Ag	18.64245250850084	14.61828085822909	16.66264301744570
Ag	10.52247358862076	16.66292413913290	14.62189498803849
Ag	14.57138476383306	6.48406153024168	16.67079573810258
Ag	12.53736844995160	10.55915468217547	10.56557934895034
Ag	16.57565532865045	20.69291286022423	12.59168623050224
Ag	8.44380766914985	8.49355461254264	8.50829167676959
Ag	10.49351718163364	6.47939911318650	8.52708387045057
Ag	16.62646076025943	8.49760664864946	16.67443773557955
Ag	12.52686076798298	18.71177260189706	6.52568956780679
Ag	16.64261832256023	12.60920763900099	12.61261103349801
Ag	14.55492392631548	10.56527803750755	16.67277862682709
Ag	18.63656867688752	12.58492581353774	14.61845014237837
Ag	10.48540108477794	18.70142758703953	16.66549894940974
Ag	16.61011342790493	14.61504667470048	18.71095669127408
Ag	14.56401212265122	8.50213291513165	6.50226604847845
Ag	18.61997505624910	12.57717208571934	6.53102410181304
Ag	20.6339784423497	12.57893225197401	8.58210577082406
Ag	12.52412609928790	4.51300799385834	16.61401460371567
Ag	10.48255807747073	16.66367809558378	18.71623248504658
Ag	16.62528165636465	16.68032024933589	16.67617721795846
Ag	18.65230288621093	6.46665946121646	12.58725046093762
Ag	8.42835019474131	18.73305506892166	14.66352567047536
Ag	8.45396786326679	10.53105816602579	6.49308691915109
Ag	8.45166204235872	10.54658146814124	18.70493085231948
Ag	12.52313127764400	4.45713871323199	12.58858152221584
Ag	14.54575209328927	10.56341205717178	20.73010863044178
Ag	10.50876184829559	20.71687369650871	14.59090435235633
Ag	6.41611457729839	16.66160031260155	14.64598223883198
Ag	12.53529977354622	12.59528220772395	8.49132247828470
Ag	14.54599045388785	8.52020187067876	14.63176727549684
Ag	12.52315630937428	8.56522951509488	20.70831454936210
Ag	20.70705121826882	10.56901888129696	14.60935960388634
Ag	6.42452133154706	10.53460619703517	8.52584955659590
Ag	6.42587572278591	14.62885132971335	8.53030020849106
Ag	10.51312109892966	14.62514029840798	16.68175462022139
Ag	16.61317023456111	10.58789052221732	10.57097021159183
Ag	4.43132208401480	8.55250215877419	12.59306544856920
Ag	12.52860176931928	12.58235590157379	20.71954275543018
Ag	10.50993386131365	4.49793729767997	14.58722319522862
Ag	12.52846625100634	6.47065982793550	6.51947871012550
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Ag	16.60812841282997	14.63162854842269	6.48920787497271
Ag	8.47245140621567	20.69659915160528	12.59145891238660
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Ag	14.53854659696903	4.49910231461013	14.58583404613207
Ag	10.50711272761435	14.59885908160456	20.72986255141683
Ag	14.54679192230499	14.59856720448834	4.49184083268244
Ag	8.44899835117936	14.61524807702873	18.70730634449508
Ag	8.46851310906192	14.61093924035688	10.57780945894331
Ag	4.39614593696779	12.58293543478614	16.63163173450296
Ag	10.47907137396876	8.51061595532331	18.71935934916683
Ag	8.45221160326407	14.62692417385852	6.49480237742312
Ag	14.54311818457994	10.56676012317540	4.49735287222893

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 Ag 16.62716221962695 18.72772064485692 14.65887737849753  
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 Ag 18.63589459857069 18.69993704254864 12.58746806793535  
 Ag 8.43816366482233 12.61452021300393 12.61166133838818  
 Ag 8.47095259608085 12.57437125281152 20.69970509263640  
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 Ag 10.50210819845450 10.57478192752146 8.54379493913571  
 Ag 14.57402141550241 16.66393111055030 18.71834865521449  
 Ag 4.38239764666684 10.57631150222612 14.61294290318483  
 Ag 14.54412401246298 16.66119235455352 14.61984139788246  
 Ag 18.64876065688398 12.57720942990327 18.67823606836171  
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 Ag 10.49781476752039 10.55807492647716 12.60696038240668  
 Ag 10.49415536155037 8.50409962606749 6.49870480579632  
 Ag 20.64914458733406 14.60049104919653 10.59693362182999  
 Ag 12.52589544180328 18.67707410534564 18.67621868479220  
 Ag 14.56827678406039 10.57097974475576 12.60743853606568  
 Ag 14.53911258792381 4.43029774475181 10.57466567805894  
 Ag 12.52270886331150 20.74611292776399 8.55460743853177  
 Ag 20.70296906137763 14.59114819764649 14.60647648348121  
 Ag 16.59563362252439 18.71404173667669 10.53952352528666  
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 Ag 18.65418788457152 8.51426827793228 14.64252118120665  
 Ag 12.52670602743383 18.69374702264126 10.58291636895340  
 Ag 6.43038673266366 8.50978110257612 10.54965192623536  
 Ag 12.52790426789178 6.51057582276226 18.68252892735112  
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 Ag 18.64942597672575 10.53391494918255 8.52160863512593  
 Ag 4.42986448673293 16.63902412547809 12.58884802097017  
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 Ag 12.52963439317706 12.58246667838335 4.51133388453276  
 Ag 6.43808019827138 12.57779746222517 6.53293338431929  
 Ag 6.43541966563806 6.50624813652638 12.58368049664167  
 Ag 20.64641529844318 10.56221020072532 10.59823109249121  
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 Ag 6.41656159835731 12.57772312929524 18.67723048791472  
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 Ag 18.64161956344440 14.63261455117844 8.52660340633708  
 Ag 8.43765455547772 16.67945601451381 16.67436025092575  
 Ag 16.58733859606172 16.64786849278427 12.59719527899126  
 Ag 4.42136935259100 14.59963797930819 10.60305135869032  
 Ag 4.39332677350419 12.58092661194157 12.59468338446276  
 Ag 12.52655057441284 8.53276133119020 4.51945588303510  
 Ag 14.56363621330210 14.61756834584192 8.53323010013540  
 Ag 10.50641401950207 10.56455257399279 20.73649705529111  
 Ag 12.52547219147418 16.62886048347063 4.52120666578773  
 Ag 10.51224847859102 20.76880382130871 10.57081431164533  
 Ag 8.47074844278665 6.50148077005450 10.54825288828197  
 Ag 16.60098820973100 8.53216816083636 12.59568440228856  
 Ag 4.42935585924663 10.56991945361384 10.60315801961948  
 Ag 20.67845983095179 12.58123950643547 16.63378905401726  
 Ag 10.51016486530525 10.56623506919746 4.48927196594819  
 Ag 14.56659395660639 10.57602380083809 8.53992934147454  
 Ag 6.42312010425193 10.54555720320586 16.66244558986159  
 Ag 8.44567876930285 16.68729867342856 8.52146701934332  
 Ag 16.57737033009528 12.57440702460750 20.70146578507500

**Pd<sub>110</sub>Ag<sub>295</sub>L<sub>1</sub>-1323.751**

Pd 11.97276502642989 11.97275610475088 5.85898921594414  
 Pd 14.00420617225081 9.95227198142677 5.85889718185773  
 Pd 9.95228950563719 14.00419183896023 5.85891113728875  
 Pd 16.05081866506100 16.05080815389067 5.87043978562304  
 Pd 18.07669525415370 14.01533256779789 5.86737970016540  
 Pd 14.01534548708151 18.07668746527159 5.86739449051819  
 Pd 11.95778209918362 7.91790857902182 9.94430167397595  
 Pd 13.99582938450526 5.85887586304036 9.95226109948506  
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 Pd 14.00051215359812 11.96839436824172 7.92187923100238  
 Pd 16.04225840299720 9.94430040194724 7.91790366008148  
 Pd 16.02878192160808 11.97722627875917 9.93804045562471  
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 Pd 5.85886791381868 13.99582754316723 9.95227974529158  
 Pd 9.94431897582064 16.04224725192086 7.91792507182763  
 Pd 11.96839392254626 14.00050838453615 7.92188608511702  
 Pd 11.97721854147232 16.02879163807907 9.93806704469977  
 Pd 13.99943528874885 13.99945567902130 9.92377949742527  
 Pd 18.06135568831494 16.04825457195120 7.92018762239624  
 Pd 20.08993784368512 14.01374885925430 7.91007081072992  
 Pd 20.07981438567184 16.04825748791330 9.93863743308197  
 Pd 22.13263157650768 14.01534867895529 9.92330256488287  
 Pd 9.94253714433778 18.06437515910556 9.93567518689293  
 Pd 14.01374653013396 20.08995010743733 7.91007574324383

Pd 16.04825733512737 18.06137771914225 7.92019611209338  
Pd 16.04825356983911 20.07986161217583 9.93864788144546  
Pd 18.06878896711930 18.06883298956151 9.93120968012834  
Pd 14.01534358996848 22.13264624520700 9.92328838600498  
Pd 7.91002449751139 7.91002473916152 14.01371048474966  
Pd 9.92330624959655 5.86734477190459 14.01531085165130  
Pd 13.99952873912979 7.92185939012706 11.96838386029892  
Pd 16.02726557977951 5.85893750604821 11.97273819411623  
Pd 16.03163601439183 7.92184048585457 14.00049983151133  
Pd 18.04772736112900 5.85885308045193 14.00418326605867  
Pd 5.86732062267570 9.92325820980051 14.01531008412635  
Pd 9.93801904166044 11.97126681383824 11.97721028859056  
Pd 11.97126153707019 9.93804194998026 11.97720892767806  
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Pd 18.06198136764376 11.97723291325856 11.97125521265060  
Pd 20.08208147028390 9.94429547948925 11.95776007877971  
Pd 20.07811884004336 11.96838206119672 13.99952621808108  
Pd 22.14106932653866 9.95224647526959 13.99579895638503  
Pd 5.85893140377379 16.02726329485604 11.97274587155815  
Pd 7.92183279763882 13.99952486836520 11.96838447956202  
Pd 7.92182731240187 16.03165178303839 14.00051098660031  
Pd 9.92375679055013 14.00060293174607 13.99944399672707  
Pd 13.99980045717268 16.03401095597202 11.96607787243734  
Pd 16.03395953718103 13.99984911161339 11.96606019709906  
Pd 16.03395349818170 16.03402516808534 14.00022433437254  
Pd 18.07623533549633 13.99947175881463 14.00057551289549  
Pd 22.12956262016064 16.05082829554544 11.94917102020822  
Pd 5.85883629535569 18.04773970932869 14.00419482311494  
Pd 9.94430684087248 20.08213176674379 11.95777417405508  
Pd 11.97721750030397 18.06201660692903 11.97127272563927  
Pd 11.96837682814530 20.07819633427892 13.99952530192214  
Pd 13.99942539570322 18.07630833007214 14.00060004987427  
Pd 18.06134888720032 20.07986004172887 11.95177229366090  
Pd 20.07979695095809 18.06138475490362 11.95176920339289  
Pd 20.08991088041607 20.08995665369797 13.98626746507064  
Pd 22.13260311282949 18.07668226587553 13.98465749192579  
Pd 9.95226323885161 22.14114047678119 13.99580070614431  
Pd 16.05082358121162 22.12959297253730 11.94918974084922  
Pd 18.07670811209595 22.13265140263157 13.98466563685313  
Pd 9.93862862524512 7.92012902331556 16.04823102684008  
Pd 11.94921386371474 5.87037242839457 16.05079512498367  
Pd 11.95178314647099 7.92011634909509 18.06136055148744  
Pd 13.98469139899742 5.86732130208344 18.07669966113656  
Pd 18.05570287637395 7.91787414396448 16.04224465095621  
Pd 5.87036392341171 11.94918449389959 16.05079746149491  
Pd 7.92011588291765 9.93862077581449 16.04822595790754  
Pd 7.92012229896074 11.95178271981049 18.06135348238166  
Pd 9.93119531467083 9.93119603541953 18.06879408418826  
Pd 14.00020821329129 11.96603950910057 16.03399462155159  
Pd 16.02281503235595 9.93802534523445 16.02877068339087  
Pd 16.02281061858353 11.97125165362314 18.06199509193992  
Pd 18.05747184885847 9.93563976977486 18.06435747647116  
Pd 22.14097118747598 11.97273755720839 16.02724959847319  
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Ag	16.03221323199930	14.01156376902135	24.21089447740265
Ag	18.04859293863425	16.02258461046372	24.12523900686700
Ag	20.05800050011867	14.00072633644752	24.09842755373237
Ag	11.97170989958587	18.06060478052575	24.17367119519932
Ag	14.00072436826094	20.05799648926866	24.09846761903380
Ag	16.02258204502613	18.04861132697314	24.12524249840997

**Pd<sub>110</sub>Ag<sub>295</sub>qL<sub>1</sub>-1323.767**

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Pd	9.95959630911236	14.00603302259563	5.86773470021689
Pd	16.03177103223818	16.05040864917797	5.88253233709476
Pd	18.07223502731230	14.01937106111054	5.87177033598357
Pd	14.01673003267441	18.04697017432012	5.88640912966752
Pd	11.95706172674834	7.91821531616905	9.94513892359235
Pd	13.99659969932084	5.85917007053074	9.95301692917699
Pd	7.92041071851651	11.95688774468195	9.94523118297709
Pd	9.93553226226888	9.93403096684835	9.94239231742448
Pd	14.00167656395939	11.96215134856363	7.91950344876605
Pd	16.04225650226112	9.94299958217100	7.91683902937448
Pd	16.02534456918277	11.98123293092254	9.93605268266794
Pd	18.06222727107847	9.94185982245197	9.93275826303013
Pd	5.85944452615949	13.99565585380897	9.95411708515316
Pd	9.93519402527638	16.04541192100834	7.91492243664710
Pd	11.98042361485905	14.01614018096302	7.92287134470068
Pd	11.98539633708732	16.02771149804390	9.92542133292741
Pd	13.99854296219987	14.01151282345466	9.90551265183303
Pd	18.07177755675977	16.04380224525844	7.92070328024924
Pd	20.09021293706535	14.00936813994009	7.90630242392257
Pd	20.08531889959425	16.04565470148557	9.93345344794851
Pd	22.13396107358912	14.01084050146179	9.92230995022624
Pd	9.94421983233248	18.06098940236030	9.93127536745262
Pd	14.00823229711837	20.09390078773397	7.90853057658633
Pd	16.03682566980915	18.04206472321522	7.90960585676090
Pd	16.03640750234090	20.08013642801925	9.91836008608671
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Pd	9.92151441810793	5.86852979736842	14.01649121043263
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Pd	18.04580760793186	5.85994675325993	14.00468019792366
Pd	5.86801786102733	9.92185938479935	14.01603379534048
Pd	9.93910247778598	11.97221729431500	11.97487295732602
Pd	11.97216034506942	9.93817189325630	11.97645527201278
Pd	11.96540724115514	11.96647035326559	13.99750843926865
Pd	13.99972134910368	9.92430221773762	13.99679002065040
Pd	18.05870238437375	11.97896933812358	11.96874184812671
Pd	20.08046255842057	9.94553797880261	11.95675592980297
Pd	20.07733895039478	11.97113024844244	13.99821988885469
Pd	22.14077572381844	9.95114185751925	13.99596888423407
Pd	5.85888979236998	16.02867102982556	11.97233399916146
Pd	7.92418394486651	13.99897450569806	11.96805073757503
Pd	7.92324529975333	16.03109942332128	13.99862222651728
Pd	9.92279934386355	14.00048109464068	13.99765591989912
Pd	13.99850658094403	16.03403341006070	11.97228784001734
Pd	16.03019356726277	14.00550798574010	11.96235171265827
Pd	16.03441608578283	16.03517358033408	13.99976764416474
Pd	18.07633726722060	14.00099318452940	13.99868114026936

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Pd 11.98016476522615 18.05942761241736 11.96720543763987  
Pd 11.96959533335481 20.07733395628113 13.99672906257908  
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Ag	18.05900522087769	11.96917072042797	24.17281484059318
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**Pd<sub>110</sub>Ag<sub>295</sub>LEH-1323.547**

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Pd	16.04690629035419	11.92706367446256	5.85410383979420
Pd	9.90275571112334	13.99175420912828	5.84201126706256
Pd	11.94470797901919	16.05901538393190	5.84439044604126
Pd	13.99211396998741	13.99405229185032	5.87743380128022
Pd	16.04961198721880	16.06321625728611	5.84524916428190
Pd	18.10254591758267	13.99468970154981	5.83636415518501
Pd	14.00043933146570	18.11752222699608	5.82822320369158
Pd	11.94495781967501	7.87842439710777	9.90163707565420
Pd	13.98919131612735	5.85670315843682	9.89334014289189
Pd	9.92458401785558	9.90681235849521	9.90330757483565
Pd	11.92914564134016	9.91605003385880	7.89856170582971
Pd	11.95966563265190	11.94878017418651	9.92314621197701
Pd	16.06722301886171	9.91260288709816	7.85788414104198
Pd	18.09695325990448	9.90999012306076	9.91004081334483
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Ag	18.05873617110218	16.02119478913137	24.11523835137242
Ag	20.09070964128888	13.99855410465053	24.11838828788409
Ag	11.97469215678801	18.06918351591799	24.17345627434794
Ag	14.00096408160365	20.07263304044284	24.13053213431035
Ag	16.02542300449901	18.06208201397630	24.12152683666359

**Pd<sub>40</sub>Au<sub>161</sub>L<sub>10</sub>-680.860**

Pd	14.55511979613052	12.50006330168741	14.46592208297522
Pd	16.61351089603435	14.57976699225715	10.49405670303931
Pd	18.62256393402465	12.50003014879399	10.51401274108662
Pd	8.38652025440000	10.42024526194436	14.50648971640985
Pd	6.37753884580064	12.50007117872005	10.51407332792771
Pd	12.49999606651401	14.52018662895751	18.41769691349713
Pd	14.52016118887086	12.50006383856271	6.58203509625801
Pd	14.52014917647882	12.49999072182464	18.41800296937732
Pd	12.49999888455318	10.44483092467542	14.46551834270499
Pd	12.50000446441748	6.37733239332863	10.51380114965403
Pd	12.49999849627017	14.55505986376709	14.46644229657579
Pd	10.42024927882354	16.61350175446700	10.49386426871135
Pd	18.62246560047417	12.49998923922231	14.48602693985850
Pd	10.42024743915771	16.61355023190259	14.50620245779642
Pd	10.44490865175655	12.50007072478474	14.46611130342093
Pd	10.47983326999694	12.50004315977418	18.41784775485868
Pd	14.57978259265240	16.61353179841921	10.49375651098169
Pd	6.37753303769277	12.50004600268410	14.48592008586156
Pd	14.57979095506840	8.38672535886317	14.50628292988403
Pd	12.4999984175393	18.62235616519401	10.51426495423037
Pd	14.57979487308861	8.38667182371111	10.49368316941341
Pd	10.42022581028012	8.38667861551962	10.49377688879942
Pd	12.49999544154349	14.52007771119735	6.58223986431145
Pd	12.50002746414286	14.55501460553191	10.53362391409445
Pd	16.61347873961886	14.57974941025514	14.50597929195865
Pd	12.50001167694794	18.62239746933302	14.48574621275528
Pd	12.49998883009906	10.47976374397778	18.41822511456887
Pd	16.61340933419968	10.42021614324873	14.50647912870177
Pd	14.55517113192200	12.50006760625016	10.53405831962950
Pd	10.42021400731483	8.38670523053775	14.50619392377325
Pd	8.38649835041677	14.57975917359443	14.50599632560058
Pd	12.50001493727372	10.47969596332053	6.58187538760287
Pd	10.47986349852821	12.50003147282203	6.58209926207408
Pd	12.49999623345602	10.44479436923738	10.53445910966967
Pd	12.49998031186474	6.37746294854633	14.48617235177193
Pd	8.38650498162491	10.4202222444213	10.49348555705413
Pd	8.38649541849202	14.57975840181473	10.49409219044660
Pd	16.61344182574278	10.42021731750117	10.49345293986003
Pd	14.57979457737735	16.61357417411524	14.50631579053384
Pd	10.44490378013016	12.50003460013619	10.53394665320932
Au	14.50079764721880	14.50053128550850	4.54671500207933
Au	12.49992266317000	6.43647463562123	18.49010053638317
Au	8.36074749923154	10.35881273254260	18.55596242746975
Au	12.49998421070690	4.47236148415436	16.47452017446433



Au	20.52785378197107	12.50000148197444	16.47458844825617
Au	10.49926109714305	14.50067714641123	20.45326532664819
Au	10.36143772424192	18.65567202351427	16.56806837141552
Au	20.64047106193761	14.52968830660648	14.50178470099769
Au	20.64038998468192	10.47014569037578	14.50157720465684
Au	10.49924364371224	14.50054801408717	4.54670073729902
Au	10.35882129510885	8.36090778662707	18.55609913895089
Au	4.35943942078638	14.52982080555496	14.50176254496836
Au	14.63834503397930	6.34445808085334	16.56807121904841
Au	6.34441363671762	10.36141693689834	16.56809485500160
Au	12.49997523963874	6.43629537194166	6.50997286805315
Au	14.64120422576056	16.63923309058803	18.55608404062267
Au	14.52977573806636	4.35961247551275	10.49840297755317
Au	6.29903306406847	8.31460913258615	14.62092733538874
Au	14.63834813738955	6.34434202190816	8.43192058354529
Au	10.47020771564672	20.64052534015936	10.49828552998455
Au	8.31449751763117	6.29904405659411	10.37924528955670
Au	10.35878208516972	16.63914440081020	6.44392021042390
Au	18.70091235519975	8.31460879859486	14.62083804384726
Au	14.52986983508439	20.64056902205853	14.50164826575768
Au	6.34427359415310	14.63845886434732	8.43197132367373
Au	6.36944710336847	6.36948748800309	12.49994335163528
Au	8.31453030036464	18.70094849780376	14.62098249836020
Au	18.63047028413716	6.36945731130294	12.49993581255278
Au	6.43629926064812	12.49996916517931	6.50985434278734
Au	18.70091342271835	16.68544291228539	14.62096715535545
Au	16.65580423152709	8.34433366203494	16.56319505057772
Au	6.34435319754318	10.36136632291571	8.43185656882064
Au	6.29910000704693	16.68548111854135	10.37907332346892
Au	16.65587628094613	16.65601405756111	16.56318007718404
Au	14.63865176928177	18.65565152262325	16.56816063419956
Au	16.68548148423872	6.29895383019381	10.37913799650193
Au	12.50003169901453	4.23425749313563	12.50003517146111
Au	10.47016831359606	20.64062566834698	14.50168669599269
Au	14.52975384460216	4.35973152254155	14.50160910964888
Au	12.50005415049349	12.49986780136130	4.51608590475819
Au	8.31460032715250	18.70082560122358	10.37900766486582
Au	10.36166307276501	6.34435258018079	8.43202623887748
Au	12.50003087285939	20.76587524016331	12.49994142926043
Au	18.70101631241605	8.31453816518664	10.37899963463625
Au	10.35885657540021	8.36078888471307	6.44396523042955
Au	16.68538197193972	6.29910683743718	14.62073027939875
Au	14.50056542754519	10.49932458312761	4.54683204912964
Au	14.64121956460848	8.36075725864285	6.44395081883733
Au	18.63060119983398	18.63050340280126	12.50001751404130
Au	6.29904386468980	16.68551443843414	14.62097099889833
Au	16.68550204005771	18.70095679614690	14.62103345302127
Au	18.65575894025405	14.63839843246083	8.43197339446695
Au	10.49935689061035	10.49935425036062	20.45332927409736
Au	6.29895596176983	8.31459296999306	10.37905633842834
Au	8.34409845372980	8.34433721675570	16.56319806061103
Au	18.70094724119053	16.68546994581331	10.37908925512063
Au	18.56359529029999	12.49993410320454	18.49016830088858
Au	14.50065750412855	14.50061302971658	20.45333240892000
Au	8.36079053208461	10.35871191301350	6.44402606223453
Au	14.50060866495873	10.49928838000984	20.45339841979981
Au	4.35949189774901	14.52982893275315	10.49824328344557
Au	16.68543238946538	18.70087080005933	10.37898805624046
Au	4.35957359761660	10.47021108481248	10.49842931275029
Au	12.50004342688348	18.56372623292667	18.49020658476622
Au	16.63922916882271	10.35869392320813	6.44406405400638
Au	8.36077342367862	14.64117836301045	18.55609851137537

Au	10.35880816547725	16.63926701650895	18.55602847985460
Au	20.64047664615641	10.47018949122910	10.49841016819020
Au	4.23419142152575	12.50000587495860	12.49995721094437
Au	14.63858363728475	18.65558531780155	8.43189980261942
Au	16.63918173088061	14.64106598705512	6.44388203450921
Au	6.36939757476831	18.63056394490019	12.50003991819568
Au	6.43628135648447	12.49999901971334	18.49011739809326
Au	18.65549887810195	10.36147392145853	16.56808402934227
Au	8.31454986350449	6.29912280978074	14.62073172992174
Au	4.35949794152314	10.47022072944584	14.50153561336380
Au	8.34405304920855	8.34426867574073	8.43681428990631
Au	10.47022823477986	4.35958777360508	10.49845596465852
Au	20.76579789053444	12.49990308185130	12.50005251443256
Au	16.65584882278398	16.65597376313080	8.43684602353392
Au	20.64054878874122	14.52975690807028	10.49828124562559
Au	16.65585076577264	8.34426285561329	8.43672209315445
Au	18.56375170427815	12.49996383640224	6.50985578928270
Au	18.65563668954879	10.36141327428495	8.43182896166102
Au	10.47027415143397	4.35972514067146	14.50157757419693
Au	18.65570597292355	14.63837708792834	16.56811939562419
Au	6.34425282843468	14.63850089791660	16.56809942601344
Au	8.34414928563067	16.65590082153183	8.43689078976801
Au	16.63917571025637	10.35874746604233	18.55604944043526
Au	14.52981352963787	20.64050333240883	10.49833892779329
Au	8.36082980956501	14.64100193804504	6.44390324836468
Au	14.64116919201809	16.63912931377662	6.44392815439658
Au	14.64105369572802	8.36091136930906	18.55609083329781
Au	10.36162705738968	6.34441076361679	16.56802856485728
Au	12.49996654500394	12.49996646010259	20.48391576745930
Au	16.63915032139501	14.64112029292152	18.55619760602672
Au	10.49947466618586	10.49923763859652	4.54686701360752
Au	10.36144256187056	18.65557406078211	8.43194366684301
Au	8.34406113964416	16.65605481132884	16.56308958305547
Au	12.49994766486178	18.56354852944613	6.50971175274539
Au	16.47802325126027	12.50007823934173	20.38627236716092
Au	12.50004732991954	8.52195219517840	4.61391737567921
Au	16.47811221627592	12.49996393383053	4.61388750934979
Au	6.39676368893546	10.47064924202570	12.49997186001158
Au	12.49994272430666	16.57992977212057	12.50002384053653
Au	12.49988508144868	8.52208429602538	20.38627790482720
Au	20.58191269025728	16.57473870977357	12.50007278002692
Au	12.50000588563855	20.52796291854911	8.52530661852039
Au	18.60283716957855	14.52926008669062	12.49999734353802
Au	12.49992725548667	16.47828436482792	20.38628699131531
Au	12.49998343112477	4.47223120367846	8.52552588112998
Au	16.59327765925392	16.59307569033918	12.50001420299560
Au	10.44733206782537	14.55285277757763	16.43683553485268
Au	8.42707135130506	12.49985098113907	16.42201222011285
Au	16.57477312030386	20.58200679011115	12.49995882309226
Au	20.52790566732784	12.49998680605453	8.52543869987292
Au	4.47201230731406	12.50003519266306	16.47454304847336
Au	10.44067680644884	10.44000495955659	12.49997379762529
Au	8.42519969868658	20.58205481844941	12.49992484485866
Au	12.49993705429140	12.50043279446971	16.41568507642112
Au	10.47040026196312	6.39690029199760	12.49995720994287
Au	12.50009775993290	12.49959508728145	12.49997339832157
Au	14.56030473693782	14.55962257581250	12.50000527320825
Au	12.49993231497092	8.42144110911036	12.49993698626657
Au	4.41800760056498	16.57484531508234	12.49999445578285
Au	14.55936556029913	10.44015805303546	12.49997311057325
Au	14.55323101758147	10.44696552279401	8.56327903681376
Au	14.52963203376397	6.39680615032655	12.49994486656137

Au	12.49993316459275	12.50041335897517	8.58431397484888
Au	10.47085298457569	18.60288784342137	12.50001533771469
Au	12.50004112104098	8.42693947578613	16.42201984015862
Au	12.49997348789755	16.47807668295583	4.61366018011780
Au	12.50000082658925	20.52808789906503	16.47460254693707
Au	16.57926961327356	12.50039077706057	12.49996469852512
Au	8.52182924703654	12.50014185599106	20.38617435937064
Au	16.57304439015559	12.49983932977563	8.57796730111274
Au	12.50006315798821	16.57282861962546	16.42200329073153
Au	16.57294851288047	12.49983096501630	16.42205176284639
Au	10.43978454396358	14.55975412342024	12.50002319649627
Au	8.42709324193466	12.49983255223970	8.57798620004163
Au	10.44679142665780	10.44710081548173	16.43673445799667
Au	10.44737525128052	14.55278379921765	8.56319517775831
Au	6.39722597606435	14.52923474624875	12.50003149580965
Au	4.47203011945901	12.50001414402824	8.52544503258536
Au	12.50001918523532	16.57274571294952	8.57798676026387
Au	14.55268291130424	14.55296284651661	16.43683737030949
Au	16.57466881283738	4.41824073520015	12.49999119698766
Au	14.52920773280091	18.60296292576988	12.49999983490434
Au	14.55320475921388	10.44699028198673	16.43673553551272
Au	18.60329199356199	10.47053071036839	12.49993338557142
Au	16.59328392476140	8.40664480804767	12.49991795048425
Au	8.42526351579482	4.41826538437469	12.50005334395309
Au	10.44682910963425	10.44704153037066	8.56324407600093
Au	8.40683142097300	16.59305854075214	12.50002660254416
Au	8.40675727885148	8.40667693153040	12.49995823292968
Au	14.55265079080010	14.55290264388164	8.56318720107914
Au	20.58182269220851	8.42535164458673	12.49991541189719
Au	12.50006158738709	8.42684844539129	8.57798763227832
Au	8.52190765567799	12.49996138745336	4.61381044791581
Au	8.42049854170979	12.50039122471619	12.49999169591348
Au	4.41803892013221	8.42541375323740	12.50006097992012

**Pd<sub>40</sub>Au<sub>161</sub>LEH-681.346**

Pd	6.43565926801491	10.48592763275453	12.49991132656169
Pd	18.56649201045745	14.53065447588663	12.50003890231252
Pd	16.57444971598642	16.57075683807168	12.49995849663055
Pd	8.43044501087517	12.50022115023600	16.56966615878665
Pd	14.53657053112615	14.54018789335190	12.49999218024908
Pd	14.53651983506966	10.45982777612098	12.50011933956038
Pd	14.56939368827450	10.42585526616039	8.45729067910926
Pd	14.51805739587338	6.43712174580101	12.50039754362015
Pd	16.56519130982587	12.49970824268387	8.44879618067680
Pd	16.56494633145634	12.50020258520853	16.55142292696248
Pd	8.43054873460741	12.49991765841896	8.43018268080685
Pd	6.43562810078715	14.51419441000171	12.49968539688337
Pd	14.56928710695403	14.57405697258231	16.54290531660815
Pd	14.51818345503493	18.56285623846763	12.49981019274307
Pd	14.56933353325038	10.42622944747466	16.54302329956248
Pd	18.56650624977447	10.46920736783112	12.50017273140913
Pd	16.57441350019028	8.42915363440177	12.50026030489619
Pd	8.43357347446084	16.55287629065392	12.49963690265717
Pd	8.43362377482745	8.44722795123585	12.50007028003615
Pd	14.56944534607950	14.57375154182138	8.45709679545683
Pd	18.56342943379861	12.49984798326096	10.48427517878071
Pd	6.43531222644600	12.49999099354105	10.46778475494199
Pd	12.50663534109709	14.54135016004779	18.55545269696733
Pd	12.49062596274667	6.44584503006153	10.45521486778550
Pd	10.42938567634383	16.54478882936071	10.42620029534679
Pd	18.56324534376303	12.50003477072871	14.51602488002789
Pd	10.42931071433629	16.54486491870763	14.57342626873536

Pd	10.46401814171217	12.50016505250110	14.53942374344854
Pd	10.48313839726321	12.50021106242684	18.56132897656558
Pd	6.43522142741416	12.50014815874910	14.53184270631477
Pd	12.49081847518828	18.55398386525297	10.45460399164853
Pd	10.42936924495710	8.45513790679642	10.42653804016756
Pd	12.50688303370316	14.54094098727833	6.44461750956381
Pd	12.49058360515140	18.55413320290546	14.54494848753756
Pd	12.50665821871210	10.45909407589078	18.55534681745183
Pd	10.42926985524851	8.45539149934386	14.57371037512940
Pd	12.50683000942879	10.45862069930101	6.44470098390447
Pd	10.48323673378327	12.49979150376673	6.43864575840675
Pd	12.49061866627692	6.44601542609104	14.54542311432185
Pd	10.46407922948355	12.50000876912040	10.46053118437295
Au	14.49984639106011	14.50948541847627	4.41951558477679
Au	12.49933060879389	6.43421074412712	18.57261778649875
Au	8.35670135708760	10.36666875695958	18.63912735448579
Au	12.50684513767183	4.49868737902066	16.52274601382615
Au	20.49597777854575	12.50025264121270	16.50812382133658
Au	10.49295041236720	14.51025485427689	20.55459453024114
Au	10.36442975087229	18.63630970635155	16.63012073229881
Au	20.57488696636242	14.50486113959810	14.50195290642528
Au	20.57491380363879	10.49529105049527	14.50215867035171
Au	10.49310706646060	14.50985767237732	4.44532895309572
Au	10.33888491159782	8.33699289002368	18.66519261307235
Au	4.42558356111577	14.49939475400311	14.50763524217695
Au	14.66023634657452	6.33827331551365	16.66391244506911
Au	6.36079904142756	10.37822277876106	16.63001974026593
Au	12.49956967843671	6.43365329930406	6.42769522995678
Au	14.63286316587520	16.62748379192830	18.63565460879787
Au	14.50314864452655	4.44752551113233	10.48746735035827
Au	6.38623247630053	8.39459570403343	14.60365182548999
Au	14.66026780892958	6.33800278854446	8.33671903703621
Au	10.50103828314324	20.58096060330018	10.48568568781861
Au	8.39022615735504	6.38967979195498	10.39034203358203
Au	10.33902957448355	16.66326699503654	6.33459234012880
Au	18.64128574741081	8.36704462167324	14.61925846622790
Au	14.50330694836459	20.55241073709670	14.51276924551086
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Au	6.44856785152801	6.43387660358706	12.50000705510626
Au	8.39011980399579	18.61022368983983	14.60943157625421
Au	18.56455999007052	6.43816084926518	12.50049764070214
Au	6.44042528920259	12.49983968106150	6.44134002079677
Au	18.64126075986717	16.63306304475046	14.61893475855338
Au	16.67319777985932	8.31741769570097	16.66929879357891
Au	6.36101585864002	10.37781718055504	8.36966422418947
Au	6.38629627988071	16.60552255881568	10.39597753506690
Au	16.67309735068840	16.68288259243049	16.66895764758250
Au	14.66012835778475	18.66201958500704	16.66350567605254
Au	16.64574219164237	6.35872153598646	10.37070312853676
Au	12.51110108577411	4.36646462496886	12.50042737091301
Au	10.50087191162142	20.58112194374485	14.51368035169375
Au	14.50310354494637	4.44760205792882	14.51344165288791
Au	12.48823697393611	12.49982757294656	4.35906487209640
Au	8.39016178535897	18.61034044612678	10.38979476055517
Au	10.36459620474086	6.36362535538730	8.36984283929626
Au	12.51116916435593	20.63336468588646	12.49969660237466
Au	18.64145463011880	8.36685247363954	10.38131891991620
Au	10.33908484218725	8.33645634381996	6.33497298636247
Au	16.64568156387523	6.35878970254605	14.63009309773534
Au	14.49964905790014	10.48998670733833	4.41959548828206
Au	14.63312200584577	8.37247398825326	6.36443871303761
Au	18.56465574611600	18.56192968032283	12.49982241028215

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Au	14.55614143295734	12.49990663652734	10.44855089352045
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Au	12.50030230444700	10.46321064589373	10.46455012289458
Au	8.42928335881565	10.47210585143111	10.44356426313201
Au	8.42924502435713	14.52782414049365	10.44341341569864
Au	16.57135842070854	10.44196847894903	10.47188073180216
Au	14.56602516617777	16.58171232972043	14.52412053091101

**Pd<sub>43</sub>Au<sub>158</sub>L<sub>1</sub>-685.519**

Pd	8.44335533823601	12.49998568970323	16.55663698871194
Pd	12.49996126792181	14.52542964317260	14.52539998832978
Pd	10.49799876933513	18.55165407325025	12.50778041491094
Pd	12.49995754754998	10.47459039449776	10.47456261769699
Pd	12.49999209117660	8.44335441339907	8.44336630297440
Pd	14.50199087302789	6.44829221588483	12.49220919826589
Pd	14.52592962068056	10.47403528688662	16.53282753860713
Pd	18.55171669011866	12.50779290076028	14.50200596180425
Pd	8.46666048816778	12.49157086917137	8.46667868655712
Pd	10.47405886306592	16.53275439594149	10.47408033137260

Pd 12.49153705398079 8.46662333174698 16.53335672311696  
Pd 8.44337081217224 8.44336716269285 12.50000231486632  
Pd 14.52591073772876 8.46717487561992 14.52592960330730  
Pd 14.50198399045151 12.50779217868405 18.55170626777093  
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Pd 12.50840810962739 16.53333789033348 8.46664436272918  
Pd 8.46721116037924 14.52591277531355 10.47407690754440  
Pd 8.44735235200002 10.45551491047697 14.54447340967045  
Pd 16.53279503203422 10.47407505174837 14.52590718831189  
Pd 12.49999048949900 16.55666062928259 16.55666417891826  
Pd 12.49218904987547 6.44833182962530 14.50197462949636  
Pd 14.52540638258844 12.49998542341408 10.47458663086648  
Pd 18.55171564934413 10.49797369486948 12.49220153357473  
Pd 14.54449010434474 16.55265827771014 14.54450617033047  
Pd 6.44833670853893 12.49222153486466 10.49801078603685  
Pd 10.47458700481020 10.47454045943304 12.50001009509194  
Pd 16.55666354724816 12.49998789388023 8.44331965016721  
Pd 6.44834028815891 14.50197222902932 12.50777914370323  
Pd 10.47456259794303 12.49998446685451 14.52542277914816  
Pd 14.52543686428227 14.52537962764297 12.50001045015692  
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Pd 12.50776012291076 18.55168775784068 10.49798970336163  
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Au	10.49187675263572	20.58221410794505	14.51832805097137
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Au	12.50333825849462	12.49659651334504	8.46577434396255
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Au	12.49680657944040	8.50466293480069	20.49213470049440
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Au	4.46490623678486	8.47710212645554	12.51028035274507
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Au	14.51831811931023	14.50809925276805	4.41779058012186
Au	8.37893612640947	14.61706117811224	18.62928149577943
Au	4.46489711271583	12.48971683603489	16.52292001688189
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Au	8.46566642896812	12.49658264126905	12.50343716835178
Au	8.47707066815830	12.51026982927319	20.53513720285128
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Au	4.50790184156930	12.49682978797951	8.50468970024729
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Au	14.63759001892812	16.66717935065416	18.66054131959635
Au	4.36281445155129	10.46165300436492	14.53834598144311
Au	18.54111237894872	12.50355186541140	18.54110264644332
Au	12.51226349037917	18.54115347242982	14.53843689679583
Au	14.60887472143741	16.59141363404975	6.39863669186645
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Au	12.50334471789803	16.53428499582656	12.50342779803336
Au	10.36243510194426	8.33285636890117	6.33951532496171
Au	20.63725202764644	14.53837779996267	10.46161043795277
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Au	16.66716912213632	18.66053385870092	10.36240130667846



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 Au 14.60888074871473 18.60136200636396 8.40857596959969  
 Au 16.62105356869192 10.38293107055879 6.37069729274711  
 Au 12.51226860994553 10.46152677008630 6.45883241931731  
 Au 12.50939298181529 14.52564947622805 10.47426501555403  
 Au 10.42846239644272 8.45819033377439 14.52496323034921  
 Au 10.46155098904522 12.51229655448152 18.54111263762742  
 Au 18.56915035991746 8.43373862863842 14.56942605444341  
 Au 6.33952276309065 8.33286666393681 10.36243292393630  
 Au 12.49643169967387 6.45891293596839 18.54106907647527  
 Au 12.51026229476326 20.53512679333755 16.52293405014483  
 Au 10.50583992385695 14.49415588843821 4.43650674282040  
 Au 14.52500559639490 14.57155626538366 16.54182946401499  
 Au 10.43058787981666 16.56618039853514 6.43093317740757  
 Au 8.33283400938080 6.33950555803928 14.63755150004310  
 Au 16.63494065644164 8.36502119971069 8.34001235898706  
 Au 14.53835784626951 20.63722829207857 14.53835520222560  
 Au 16.49532096582944 4.50785341349436 12.49681926452935  
 Au 20.67212778443950 12.50113654275344 12.49885135466509  
 Au 18.56915265132823 10.43055705635175 16.56625169869057  
 Au 8.45816889976305 10.42847827385404 10.47496823096222  
 Au 8.43380377056308 18.56904433516422 10.43058487233575  
 Au 14.61707420441370 18.62930964592702 16.62108698551539  
 Au 4.41781497691309 14.50809749200690 14.51831139545242  
 Au 18.62933680752883 16.62108133465664 10.38291964404452  
 Au 12.48766841534784 6.45883219895510 10.46152475801824  
 Au 12.50111491082429 20.67206453437917 12.50112054672122  
 Au 14.53845882993008 12.48770164850638 6.45879023278078  
 Au 18.54120696942784 14.53849527596750 12.48768835796450  
 Au 18.66053668806549 10.36242092025152 8.33281785068982  
 Au 4.50788138984239 16.49531771793668 12.50317522153619  
 Au 16.56623295611267 10.43053866504068 18.56913537239301  
 Au 12.49648852062331 8.46574971451400 12.49658225900018  
 Au 14.50810457291870 14.51835397657378 20.58225324068949  
 Au 12.50111519426373 12.49887735108696 4.32797067775799  
 Au 6.45896301488627 12.49644342587534 6.45896548409756  
 Au 6.43759852372902 6.43761833102375 12.49999520677033  
 Au 20.58224692237950 10.49188662321709 10.48162611584656  
 Au 6.45893553819594 18.54105237452233 12.50355244970665  
 Au 14.56944728090050 8.43375249446915 18.56911061267617  
 Au 16.59140114070046 6.39862517661912 10.39107623748477  
 Au 6.33950279944989 14.63756994324716 16.66714985399475  
 Au 6.43758559944585 12.49999288911548 18.56240668925586  
 Au 16.65998538778226 16.63498276092039 8.36501324454003  
 Au 20.53514240085477 16.52292114959821 12.48972625047498  
 Au 8.34000490735027 8.36505908411330 16.63493259511043  
 Au 18.62933254736150 14.61706297575449 8.37891487579110  
 Au 8.36502249722750 16.63494502857237 16.65999818763031  
 Au 4.43651200402140 14.49414577615422 10.50584828951660  
 Au 4.32799546039870 12.49887614579414 12.50112087230372  
 Au 12.51026459789223 8.47709382283507 4.46491602132038  
 Au 14.57149266972622 14.52503948803150 8.45817217872342  
 Au 10.48164708683837 10.49188449184178 20.58221672648189  
 Au 12.50315536748254 16.49533115747195 4.50787538734629  
 Au 10.50583443828911 20.56351239557168 10.50583223848631  
 Au 8.37895315010363 6.37075425131662 10.38294486603850  
 Au 4.41783061196637 10.48169310863191 10.49189666332977  
 Au 20.49216592224705 12.50316989643754 16.49534783350779

Au	10.49189203590918	10.48168205582418	4.41782867724319
Au	14.52501365311384	8.45818405446709	10.42842117068240
Au	6.37074470881996	10.38293253178693	16.62104028027173
Au	8.41722808472054	16.58274012183390	8.41726618246216
Au	16.49533928841149	12.50317071801556	20.49216877945173

**Pd<sub>43</sub>Au<sub>158</sub>LEH-687.399**

Pd	6.43917425396272	10.48365528441463	12.49315811151152
Pd	18.56573857593971	14.52047825266606	12.49208026484913
Pd	16.56569934649581	16.55197119134480	12.49040927459586
Pd	10.42716547006311	14.55753160852286	16.55278549778774
Pd	8.43689805810295	12.50205941000806	16.56908558689893
Pd	10.46357004916177	10.48227568670157	12.48916643936979
Pd	10.47254829619220	6.44947800700273	12.49384380215338
Pd	14.54135640024584	14.52921798086873	12.48364700700526
Pd	14.53639701805965	10.48237567503584	12.48929528559147
Pd	14.52739016605629	6.44947082837256	12.49396419881143
Pd	10.47641036907238	18.53727638740384	12.49349272170548
Pd	16.56853344383909	12.50244335647531	8.44346967344504
Pd	16.56299264520094	12.50197369902049	16.56929095648076
Pd	10.45871720034549	14.52924454787385	12.48353349968322
Pd	8.43154961765476	12.50251126186039	8.44320070141725
Pd	10.43295089455665	10.45394187777824	16.54612013550190
Pd	6.43421900195381	14.52053072544298	12.49186430562401
Pd	12.50014725761717	16.54652351948544	8.44600100966987
Pd	14.57289930029913	14.55752642280200	16.55279357786395
Pd	14.52366380739971	18.53717427092095	12.49360796624808
Pd	14.56692772035241	10.45397645008938	16.54614756515237
Pd	18.56062055538940	10.48361547517730	12.49342979627558
Pd	16.56365268847797	8.45010371509904	12.49213824166581
Pd	8.43443227864286	16.55195878774370	12.49024064973144
Pd	8.43624660828183	8.45010387715626	12.49179031121467
Pd	12.50003921946253	8.45808359160782	8.45563375214175
Pd	18.56112001775953	12.50294519798079	10.47451765361089
Pd	6.43890956907051	12.50299939573519	10.47431433172206
Pd	12.49995400833487	14.52405076490632	18.57757562170054
Pd	14.54090506063225	12.50110091056520	6.44321483939372
Pd	12.50002549230292	6.44939606043827	10.47104769879662
Pd	12.50000770853530	14.52608502219713	14.50994401883845
Pd	18.55903506639762	12.50257763352032	14.52656469948129
Pd	6.44078286205396	12.50257802241488	14.52635574751641
Pd	12.50008240550561	18.54088472223971	10.46766252987234
Pd	12.50019540904646	14.53614043295744	6.44722567835792
Pd	12.49998647540719	18.51687879649923	14.53933955124767
Pd	12.49989579084485	10.48274693034243	18.57006662930262
Pd	14.53731498320092	12.50677533821772	10.46837058822846
Pd	12.50013969304936	10.46658072288066	6.44836032904844
Pd	10.45937830781761	12.50113649641127	6.44310376086629
Pd	12.49990024983398	6.46911735585359	14.54313316117021
Pd	10.46284653807653	12.50678002005381	10.46830665078226
Au	14.50200889592540	14.49660312313210	4.44192049946781
Au	12.49978450903726	6.45233839439464	18.57033348596430
Au	8.38159860998471	10.39029319106538	18.61759006936681
Au	12.49988710097587	4.51092472313707	16.51605237937653
Au	20.51497442117617	12.49925332955896	16.51151846549290
Au	10.49221515101919	14.49980538184214	20.60220605200761
Au	10.35238845177457	18.62736136469153	16.65039209065754
Au	20.56858471293885	14.49557257163719	14.49862472785870
Au	20.56146370509593	10.50497441256246	14.49605996002999
Au	10.49838117365110	14.49663363337698	4.44185486506687
Au	10.37392672899754	8.39443384865350	18.63291068165567
Au	4.43124744052488	14.49553310465338	14.49828105200582

Au 14.64177151423932 6.36344628417151 16.64859703060279  
 Au 6.38074423606179 10.39891959122198 16.61066747831248  
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 Au 14.50092762298938 4.43638199348439 10.50365470472440  
 Au 6.37875091122161 8.38657859310783 14.60980167824029  
 Au 14.62314638301948 6.38482695805715 8.38283446180909  
 Au 10.50015418262924 20.55211151328013 10.50332593891894  
 Au 8.37878299599963 6.37712884010114 10.38941271932761  
 Au 10.36490849156139 16.62788251152255 6.36931952141223  
 Au 18.62105403809423 8.38657596567786 14.61016032131625  
 Au 14.49273559736536 20.52916970209442 14.50397675950991  
 Au 6.37096564617018 14.62586940348650 8.37471317831516  
 Au 6.44301807204802 6.44599008037707 12.50664224075929  
 Au 8.38199617517509 18.60377358485015 14.61136564725929  
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 Au 6.44745467573370 12.49923539532612 6.44853934940880  
 Au 18.63006564186120 16.61201403670714 14.60874269681869  
 Au 16.66013308492717 8.34169288158198 16.66958842831541  
 Au 6.37801760009945 10.37794184107323 8.38106977781066  
 Au 6.37557507488529 16.61257949749306 10.38688424052496  
 Au 16.66844999883186 16.66077530408346 16.67666406624825  
 Au 14.64756072858019 18.62731600243109 16.65049759731995  
 Au 16.62122566174902 6.37707752427091 10.38962189971258  
 Au 12.49990661741782 4.40106001844707 12.50648314139751  
 Au 10.50731062700053 20.52926697078490 14.50393506834930  
 Au 14.49396390080540 4.45668733978591 14.50714505779541  
 Au 12.50016424679907 12.50183628469219 4.38321573630024  
 Au 8.37161489246026 18.62105586098715 10.38100232590565  
 Au 10.37701040319404 6.38476635901993 8.38268752721788  
 Au 12.50006957144665 20.59101674574412 12.50394188745212  
 Au 18.61522489563901 8.38885692803943 10.38968937607651  
 Au 10.37096915552379 8.37647884181251 6.37844198850769  
 Au 16.62289927379990 6.37791128425201 14.61377970534746  
 Au 14.49945702286488 10.50444294907279 4.44299802535607  
 Au 14.62932836795012 8.37641626838834 6.37855998164920  
 Au 18.56259622121931 18.55193652270055 12.50411887186974  
 Au 6.36991268608835 16.61211118722752 14.60851402785592  
 Au 16.61797692596598 18.60369933924409 14.61159601283024  
 Au 18.62920529848585 14.62564445469896 8.37500034235963  
 Au 10.49862095533233 10.49890004982513 20.59812300264249  
 Au 6.38473372670247 8.38884439140404 10.38934642018877  
 Au 8.33952881018559 8.34173679778895 16.66937862777941  
 Au 18.62448572809767 16.61244501759361 10.38706301619290  
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 Au 8.36794292821879 10.37453449687840 6.36874289496037  
 Au 14.50098714781646 10.49883948754598 20.59826312451887  
 Au 4.42486456675842 14.49973034974935 10.50070932694016  
 Au 16.62854989128433 18.62092456535235 10.38104535914755  
 Au 4.42725022125504 10.50173241473494 10.50418059589486  
 Au 12.49983071948477 18.52757308223637 18.55904255021765  
 Au 16.63235795935792 10.37444958661049 6.36895943907194  
 Au 8.37590082562960 14.60959464479413 18.62137765852607  
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 Au 4.37060926133345 12.50178821204280 12.50001035731920  
 Au 14.63050954519690 18.61711457391021 8.37397322006453  
 Au 16.63796974880881 14.62836037074751 6.36509261470958  
 Au 6.43751678309679 18.55195797052781 12.50398319158730  
 Au 6.43849860916319 12.49640873385886 18.57126466003737  
 Au 18.61897388660280 10.39884304062115 16.61094677917612

Au 8.37697519493082 6.37803804929135 14.61360338053630  
 Au 4.43819160314623 10.50502913262058 14.49569659112844  
 Au 8.27800810415085 8.28508385351834 8.28475675897841  
 Au 10.49912179854167 4.43645364914279 10.50355606743071  
 Au 20.62924193246930 12.50169400380555 12.50025530527829  
 Au 16.73358659289201 16.72495908835879 8.27258814564825  
 Au 20.57527110056136 14.49951839202154 10.50105004134577  
 Au 16.72217491224305 8.28501790762946 8.28496468284211  
 Au 18.55289249819666 12.49910925252036 6.44886769699253  
 Au 18.62209426502189 10.37787756157298 8.38142647676375  
 Au 10.50575003933842 4.45685241146442 14.50715831375681  
 Au 18.62523166343832 14.60111256167267 16.61461939647041  
 Au 6.37457228250080 14.60107255345892 16.61433113422896  
 Au 8.26656021120866 16.72507147938124 8.27249061460830  
 Au 16.61805504085254 10.39028779270371 18.61784495099180  
 Au 14.50005265522828 20.55197441654157 10.50337300926680  
 Au 8.36236096697178 14.62849758369249 6.36494920025530  
 Au 14.63545220798698 16.62788934746346 6.36931688166617  
 Au 14.62572441280720 8.39440328229896 18.63294928874314  
 Au 10.35795031884695 6.36354060418993 16.64861045489981  
 Au 12.49989176868468 12.50122469046466 20.70534889350563  
 Au 16.62380784425660 14.60965906434942 18.62159572108301  
 Au 10.50089204985511 10.50450182613881 4.44292939412686  
 Au 10.36968634368800 18.61706105433530 8.37391818299989  
 Au 8.33146596345440 16.66080122416146 16.67650616285331  
 Au 12.50023112241563 18.53409918281266 6.45908074175345  
 Au 16.52109490413841 12.49594338469714 20.52910609077276  
 Au 12.50015438434519 8.50256875827446 4.49440771387029  
 Au 16.50483150065364 12.50024910263746 4.49107391864265  
 Au 12.49999846295744 16.55872198279980 12.50284518851874  
 Au 12.49975489973305 8.49819088400959 20.51475086871891  
 Au 20.51667341386169 16.49841591172900 12.49782276512706  
 Au 12.50008153155769 20.49024919021971 8.49853091932777  
 Au 12.49983177089654 16.49567417609367 20.52406996348942  
 Au 12.50009167703822 4.50333793267033 8.50058597095826  
 Au 16.49288044742907 20.49003903741618 12.50204107513101  
 Au 20.50180950040558 12.49712702217297 8.49877980103700  
 Au 4.48465901886533 12.49917550733048 16.51122766497108  
 Au 8.50722928488642 20.49016185815881 12.50188491720008  
 Au 12.49990774849160 12.52684052722154 16.54823481710328  
 Au 12.49999375581607 12.52563115940784 12.48838209596711  
 Au 12.49997033502489 8.42037151798732 12.50012278099632  
 Au 4.48344793923916 16.49859155554587 12.49760107920421  
 Au 14.55446744990886 10.47285844959561 8.43313660963184  
 Au 12.50007143256124 12.50232217456317 8.39750488135531  
 Au 12.49987050134833 8.49825360009401 16.56281251198205  
 Au 12.50012184479836 16.49576684042652 4.49469171166605  
 Au 12.50002903588775 20.47173332034300 16.51058030924487  
 Au 16.57307939157014 12.50458505987737 12.49150637112894  
 Au 8.47831212454121 12.49601040194582 20.52884782163234  
 Au 12.49995502791973 16.47852219373583 16.54685371377650  
 Au 10.44054311732831 14.53273637059404 8.42619062724433  
 Au 4.49851446913197 12.49729896211472 8.49837948368402  
 Au 16.49242005963378 4.49330456389200 12.50375973016060  
 Au 8.50751853755961 4.49341236873108 12.50355826804003  
 Au 10.44567738722363 10.47291300112808 8.43302656101862  
 Au 14.55966037775746 14.53274522049880 8.42631488011285  
 Au 20.50700241533378 8.50012073742154 12.49620727467474  
 Au 8.49567526057511 12.50034823399922 4.49084307662687  
 Au 8.42684640703604 12.50459214171069 12.49131293656928  
 Au 4.49288789574605 8.50017588246939 12.49577507638335  
 Au 14.53851180933714 12.52830724299557 14.54163808933940

Au	16.56358589125555	14.53108260789085	10.45751464286881
Au	8.43689590634034	10.46886014551884	14.52835289054727
Au	14.50696977837598	12.50276030861829	18.52425088460067
Au	12.49997815968021	10.48414732362499	14.51588448960471
Au	10.44505246547684	16.56002671872515	10.45957733094199
Au	10.44933022397831	16.52996932862348	14.52047766868368
Au	10.46142922408938	12.52827924794286	14.54155824287215
Au	10.49277178142427	12.50263735781789	18.52422253077689
Au	14.55506506024837	16.56005058829373	10.45965331488752
Au	14.56652571505105	8.44733057098702	14.51847539633906
Au	14.55138785773686	8.44276945581950	10.46666233325120
Au	10.44864293195726	8.44270649215093	10.46659481217693
Au	12.50008251527776	14.51716494563848	10.47020514596981
Au	16.57405245308638	14.54312303074182	14.53216403432419
Au	16.56295694203295	10.46893184041234	14.52852992792403
Au	10.43328390082739	8.44731808071521	14.51835886066303
Au	8.42587926447166	14.54313418948021	14.53204400991656
Au	12.50002279791486	10.49540614115578	10.48397850745531
Au	8.44347179187706	10.47635624057218	10.46315455104023
Au	8.43648505338926	14.53109359899091	10.45736366522469
Au	16.55654094364698	10.47631594236842	10.46335136601483
Au	14.55063934398176	16.52989516152183	14.52062599657779

**Pt<sub>40</sub>Au<sub>161</sub>L1<sub>0</sub>-696.745**

Pt	14.50205533083361	12.50010524947053	14.53815317434710
Pt	16.52482479436280	14.54803525936456	10.44590366409013
Pt	18.52110452815261	12.49994291429826	10.47312147078101
Pt	8.47519039344925	10.45200982437314	14.55406407457561
Pt	6.47903792305551	12.50006455742317	10.47291074843441
Pt	12.49988718529658	14.50001321399623	18.57812316324678
Pt	14.49975961966203	12.49981304843250	6.42204894584920
Pt	14.49957650878852	12.50011352127926	18.57801869748786
Pt	12.49990881811968	10.49797775041267	14.53820416285664
Pt	12.49992314339763	6.47889514062218	10.47332043368708
Pt	12.49989096280643	14.50219602378653	14.53796461589898
Pt	10.45193320352181	16.52477655576710	10.44572314966167
Pt	18.52107171335687	12.50010946166636	14.52718962790744
Pt	10.45183871693122	16.52481152420896	14.55384779578733
Pt	10.49782339628011	12.50012732861502	14.53807925138628
Pt	10.50021622770040	12.50012110098779	18.57810060320365
Pt	14.54806111464170	16.52471639524071	10.44587142889989
Pt	6.47902405075623	12.50007461828416	14.52697679708702
Pt	14.54795071454400	8.47527862512323	14.55412314809376
Pt	12.50000306149435	18.52104123374322	10.47285622309847
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Pt	10.50043304281374	12.49985401524227	6.42196994271576
Pt	12.49995894235126	10.49790222437730	10.46206750209317
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Pt	8.47526236842531	10.45194174729013	10.44594624592964
Pt	8.47518799266942	14.54813273083369	10.44572278383325
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Pt	14.54798675175788	16.52483267400602	14.55384905609086
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Au	14.51982525227600	14.51953289219955	4.41959232461054
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Au	20.60044421790683	14.49511236705311	14.50138670211568
Au	20.60028641334129	10.50494743516908	14.50158505583619
Au	10.48043084537889	14.51962967348120	4.41962435182627
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Au	4.39959606366040	14.49518760397531	14.50119226665631
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Au	14.65898349687119	16.66435504719657	18.67439097041520
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Au	14.51980260216463	10.48012237185602	4.41959761247145
Au	14.65926982847262	8.33555373005471	6.32554262301265
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Au	16.64296030510701	18.65357609928132	14.62887659101035
Au	18.61123194721006	14.61713388068118	8.39728272413972
Au	10.48024722019261	10.48042541114003	20.58055140978220
Au	6.34653919178923	8.35691647795873	10.37096768103938
Au	8.34242181499057	8.34238830536295	16.64821468626090
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Au	18.58028904688295	12.50026924266807	18.57204529518490
Au	14.51960498549361	14.51991166403093	20.58044781595473
Au	8.33589517890689	10.34048882286029	6.32536178283620
Au	14.51964147745701	10.48037284992942	20.58043723046499

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Au	12.49980966514139	18.58053839991788	18.57179151696571
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Au	4.31778143258960	12.50001995275613	12.49990576865116
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Au	10.50482459385483	4.39950201797571	10.49880141514280
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Au	16.65771860552226	16.65758190574596	8.35178436943618
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Au	14.49508293600237	20.60042402177632	10.49861315144440
Au	8.33579041493930	14.65932537171772	6.32521747805698
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Au	14.65913109272427	8.33573577089893	18.67462941688066
Au	10.38264668035577	6.38894453289840	16.60281346815334
Au	12.49997101909253	12.50018993548609	20.66006006192070
Au	16.66415262436189	14.65956500460388	18.67456902484821
Au	10.48045299709671	10.48014482869179	4.41951416803217
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Au	12.50014368595464	20.48957532862276	8.49984413069343
Au	18.54403828910362	14.53240091730800	12.50002687255032
Au	12.49983703519823	16.49917221485522	20.48833559325986
Au	12.49997316626797	4.51043343953713	8.50036535212734
Au	16.56305708585274	16.56302062893453	12.49988460340549
Au	10.44042565694346	14.55965118925704	16.58053454195667
Au	8.46137392316739	12.50016646453760	16.54863944002365
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Au	20.48964407375899	12.49979573619611	8.50025134345409
Au	4.51053298524376	12.50015799332226	16.49985882637831
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Au	14.52904217407842	10.47108096933280	12.50006754484820
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Au	14.53225271613456	6.45601858438533	12.50018769751482
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Au	12.49987721722629	8.46139057719046	16.54867861945902
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Au	16.54089343884507	12.50003684929337	12.50009216924924
Au	8.50093970943171	12.50019308227966	20.48823173537290
Au	16.53865408898741	12.49988934529891	8.45149425961075
Au	12.49983597335113	16.53879330731661	16.54844429948175
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Au	10.47093034644541	14.52901711991699	12.49982365317185
Au	8.46138511994164	12.49998184920739	8.45128340025949
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Au	14.53235354184968	18.54389367236559	12.49978774825369
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Au	18.54393311360464	10.46767437908584	12.50025298517659
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Au	8.43903101886581	4.46001365483581	12.50005701446718
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Au	8.43688698410471	8.43696337982360	12.50004689607945
Au	14.55951429100984	14.55940118356634	8.41937433484864
Au	20.53968915062453	8.43922768848592	12.50030829687714
Au	12.50001267727087	8.46128598222859	8.45163821431472
Au	8.50125994260113	12.49984252830109	4.51172424789992
Au	8.45916946655409	12.50007373455565	12.49990644806683
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**Pt<sub>40</sub>Au<sub>161</sub>LEH-700.686**

Pt	6.54283907533454	10.42361189467421	12.50001521009825
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Pt	10.56794784491542	10.44243058791301	12.50004749145669
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Pt	10.53472030808000	6.55815605548826	12.50008047386905
Pt	12.50539092483224	12.47104344454052	12.50002686278706
Pt	14.47350358648242	14.49305431226503	12.50004959130704
Pt	12.49361529838023	8.44231354939683	12.50005510503728
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Pt	14.47736612895934	10.41989086642603	8.55020992960762
Pt	14.44685426032560	6.55319157146728	12.50011660204705
Pt	12.49173970789467	12.43601898438501	8.55162554755527
Pt	12.49024191029331	8.47950294152612	16.48751177563908
Pt	16.41009812130368	12.41245318264454	12.50007601836232
Pt	10.52908739394036	14.48038275894902	12.50000829893310
Pt	10.51387432058378	10.42728639418813	16.43674874321730
Pt	14.47734429841930	10.42006364064127	16.45000202559280
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Pt	8.54286655102649	8.49351354283254	12.50002585693354
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Pt 8.56716471496177 12.41260890537807 12.50001210388891  
 Pt 14.48878307369719 12.50201941030147 14.50887299292077  
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Au	16.62031655521220	6.46105851462597	14.62408621490908
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Au	14.64241749137135	8.39995832130354	6.32013349554894
Au	18.48548121919847	18.53579353878004	12.49995768294916
Au	6.34084705745693	16.69506586444790	14.71819755864862
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**Pt<sub>105</sub>Au<sub>300</sub>LEH-1510.764**

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Pt	11.99685885826370	9.97485970438230	8.04185445955009
Pt	12.01590957433076	11.99950329176988	10.01827021615848
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Pt	20.01015962695092	11.95439905001996	9.99121300205629
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**Pt<sub>43</sub>Au<sub>158</sub>L<sub>1</sub>-706.178**

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 Au 16.73971438232531 16.76440829815196 8.23559170184805

Au	20.53731899490128	16.50731688113325	12.49337501004195
Au	8.26028561767469	8.23559170184805	16.76440829815196
Au	18.56828547521232	14.60902656626857	8.40712530111567
Au	8.23556670184811	16.76440829815196	16.73968938232520
Au	4.43081085240547	14.53342323129441	10.46657676870559
Au	4.41259241395624	12.52279697964891	12.47717802035098
Au	12.50664998995816	8.49268311886675	4.46268100509872
Au	14.56325335691417	14.59038299283701	8.41498628731046
Au	10.50470471244491	10.48432110037254	20.53479792617203
Au	12.48464595817538	16.49999315354673	4.49868534475417
Au	10.46655176870566	20.56918914759454	10.46657676870559
Au	8.40712530111567	6.43168952478774	10.39097343373143
Au	4.46520207382797	10.50472971244503	10.48429610037260
Au	20.50131465524583	12.48464595817538	16.49996815354680
Au	10.48429610037260	10.50472971244503	4.46520207382797
Au	14.59040799283713	8.41498628731046	10.43674664308582
Au	6.43171452478768	10.39097343373143	16.59284969888422
Au	8.29767831175801	16.70232168824199	8.29767831175801
Au	16.49999315354673	12.48464595817538	20.50131465524583

**Pt<sub>43</sub>Au<sub>158</sub>LEH-708.642**

Pt	12.53406817850735	16.47150651099471	12.49356782775291
Pt	16.42430567378105	16.46919760653528	12.48915580967391
Pt	10.52326228837338	14.50241168822779	16.49488300323123
Pt	10.53419476174451	10.52021607343741	12.52467724315750
Pt	12.53088101627305	12.50678179949594	16.51541669623249
Pt	12.53698140847237	12.49328356002681	12.51567852194547
Pt	14.47730747647685	14.47603827923730	12.49916952662853
Pt	12.52820053550249	8.56696882871982	12.50150618018719
Pt	14.51328812280858	10.49909353589043	12.52526453462355
Pt	14.50848950242001	10.50513118863552	8.46686708195879
Pt	12.52780180882918	12.52172120836309	8.46875131809350
Pt	16.42810301345357	12.51626332844067	12.49845661441292
Pt	16.43733236294860	12.52221268718231	8.46426316294896
Pt	12.51255521497932	16.46691951440954	16.48201868272297
Pt	10.54966446403748	14.48400871790933	12.45600190997199
Pt	14.51034049943548	14.53146901796929	16.51449328073080
Pt	14.47291955989886	18.46484687606994	12.49513085018889
Pt	10.54471613358723	10.53037183834873	8.51952498232710
Pt	14.49387415876929	14.53104829045481	8.46851620945661
Pt	12.50643701030846	8.56712381872330	8.48603486117618
Pt	8.57651657793145	12.50940980046889	12.49562243790107
Pt	14.52264996967034	12.48116208778809	14.55169130076504
Pt	16.41699297778828	14.53043175529156	10.44386861887194
Pt	12.51964018821645	14.51511782518551	18.51023661835515
Pt	14.47608528174136	12.51991175968226	6.47192633113732
Pt	12.53554469952686	10.53014056550665	14.51758152034496
Pt	12.52753082244582	14.43901978639160	14.49658818345871
Pt	10.55337416972190	16.41970462117636	14.49702269212524
Pt	10.52710046044543	12.47644263311111	14.52001480031899
Pt	14.48473782958795	16.48294314095191	10.46253948492510
Pt	14.50277159919144	8.56209461406101	10.44773464987964
Pt	10.52435108782599	8.58034125781325	10.47784695353288
Pt	12.51579875668710	14.48938885879199	10.48148072356778
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Pt	12.52572330030061	10.53039614960302	6.47707069875881
Pt	12.52527729057609	10.54565305417080	10.52680321677894
Pt	8.54325177714864	10.53799293931011	10.49347078338793
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 Au 20.47012582027634 12.50334141567620 16.52193550659368  
 Au 10.50480988407238 14.50572818925825 20.59528262860310  
 Au 10.42301099418359 18.50603204903295 16.53930342260021  
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 Au 18.60583305492474 16.56537639544513 14.63447892451550  
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 Au 12.50766507089030 4.25825501016230 12.51499689489843  
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 Au 18.48392292529702 18.45131626738194 12.49131113985621  
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 Au 12.49767462283839 18.49356542189965 18.53925741855524  
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 Au 8.28556577563786 6.30126789659128 14.73936372592943  
 Au 4.45106441831185 10.50422964795216 14.52451065122401  
 Au 8.42964033013103 8.48375989350006 8.44063136673896  
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 Au 18.48582430008295 12.51149819554140 6.47958630499597  
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 Au 10.47302012114345 4.45349602629753 14.54902526584651  
 Au 18.71304232352176 14.68667209943721 16.72312112727645  
 Au 6.33187713679523 14.65101776931218 16.66246023791685  
 Au 8.28246750660399 16.76235507366197 8.20913393827711  
 Au 16.71398334962928 10.28517674242678 18.75017053708309  
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 Au 14.67211659325377 16.73078177032303 6.24159698330844  
 Au 14.75730909360271 8.24780161347805 18.78678980478159  
 Au 10.26719111060330 6.28498700088783 16.75197959957595  
 Au 12.51324023023916 12.49741460661082 20.75218287984312  
 Au 16.69546079287238 14.66610685268644 18.73073633417708  
 Au 10.51011207182840 10.50510311428012 4.39552019221374  
 Au 10.32210182581747 18.72387607719642 8.24805678560678  
 Au 8.41819164099122 16.52600936104952 16.54836630166227  
 Au 12.50519696469491 18.60754267917267 6.37703580034049  
 Au 16.50628868842708 12.48857952278067 20.53919376620185  
 Au 12.49869889262109 8.53039836419121 4.51511646960645  
 Au 16.43182271914714 12.51583680881688 4.48604839158034  
 Au 6.49913334625974 10.51907847831042 12.48044139012483  
 Au 12.50739985681084 8.50563531331481 20.51410004464749  
 Au 20.50368269869366 16.45222687212026 12.50909299312801  
 Au 12.50870466433965 20.53658626508006 8.43494026467131  
 Au 18.46349954248065 14.52814716642836 12.47717890501960  
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 Au 12.50346327277689 4.47104989991078 8.49350876548762  
 Au 8.47842655400398 12.51909264720543 16.58115622876468  
 Au 16.43540374681807 20.43979088194503 12.49179553246402  
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 Au 4.49701603262924 12.50854119588938 16.51988526208359  
 Au 8.53877689141238 20.46203603037667 12.47274976648415  
 Au 10.52619889553778 6.51707380153183 12.46240726129931  
 Au 4.53532958705080 16.46865898178342 12.48218539069928  
 Au 14.50935114714022 6.50392959977043 12.46065030757386  
 Au 10.51851000739159 18.48485770833285 12.50216989051567  
 Au 12.51545665369421 8.45658861915051 16.55722009306167  
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 Au 12.50056120297788 20.43544758662435 16.48413675056818

Au	8.51398670760318	12.48556006668644	20.50146918416569
Au	16.55608842790351	12.55713855226307	16.58139092814896
Au	8.49329012521828	12.49999669781137	8.42842798195545
Au	10.45356047176239	10.43603331398871	16.60065900076652
Au	10.45307001086415	14.59770558319451	8.37666270947907
Au	6.50768335411789	14.48915808152285	12.51167117727680
Au	4.53638336483155	12.51134946366125	8.46000874612726
Au	12.53726230906701	16.57281549155361	8.39784568516371
Au	16.47101870535247	4.52416539554806	12.51499324211482
Au	14.59682510332761	10.42140800055122	16.62467670834445
Au	18.48470357133372	10.53528187300943	12.45382555784245
Au	16.53620517185514	8.48729202989966	12.44649326593739
Au	8.53753147116604	4.56240526706531	12.51357783836537
Au	8.50397619948452	16.50887439567725	12.51232861724290
Au	8.48535226047617	8.48189987138642	12.47587689751776
Au	20.44856214344890	8.54620315180392	12.49496905057998
Au	8.52960699070165	12.53353707106147	4.46183584910866
Au	4.52196247578549	8.54762202305932	12.48931357635435
Au	18.46176573210548	12.53091297776307	10.43726005671606
Au	8.44616725457752	10.43876135848246	14.58599796049727
Au	6.50763089196909	12.49678737532729	10.45861222738306
Au	14.51934317472534	12.52921261035427	18.56343202191087
Au	12.51684891525419	6.51679573652894	10.44199288435944
Au	10.46045896924707	16.57389640427127	10.39476650979383
Au	18.49313546619766	12.55773611458281	14.52407835650322
Au	10.52516365545270	12.52425798108554	18.54737633947050
Au	6.49596520471138	12.52028372439422	14.54355400351576
Au	14.59563998857899	8.42654673045586	14.59445320303611
Au	12.53227507063997	18.52694207290823	10.42129015268387
Au	12.53049312502771	14.57509003146174	6.41149399722309
Au	12.52195542910915	10.48060448025535	18.56831180750217
Au	16.58972117484340	10.43149547776043	14.60038054110704
Au	10.45157889893290	8.44472222698032	14.57707109598076
Au	10.50769958185535	12.51026069072098	6.44447604712657
Au	12.51838706621123	6.48571239279798	14.49619419414829
Au	8.44666073651112	14.59129304906552	10.38785088885701

**Pt<sub>110</sub>Au<sub>295</sub>L1<sub>1</sub>-1518.215**

Pt	12.02145482854823	12.02146740615888	6.00696334485960
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Pt	10.04496984890353	14.02182641728536	6.01829655758491
Pt	16.10142170006305	16.10143473682828	5.96552480392201
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Pt	14.07317073534897	18.08492786290053	5.96965938405808
Pt	11.92542106475028	7.96374932950304	9.99735459702471
Pt	13.97820436375441	6.01850310663542	10.04523071254935
Pt	7.96374261670963	11.92539419088737	9.99730708207783
Pt	9.93790105684972	9.93785653307512	9.98894198252946
Pt	14.02273839016882	11.99355502074473	7.96683092402204
Pt	16.07468171380184	9.99724398967376	7.96378768374784
Pt	16.03251514388093	12.00720214986152	9.95538371213718
Pt	18.06213007635893	9.98892359332715	9.93790535138911
Pt	6.01850733449657	13.97821212859649	10.04521536750305
Pt	9.99724591771077	16.07472491110534	7.96375319664325
Pt	11.99356812358667	14.02270882268141	7.96684751314051
Pt	12.00717226479924	16.03254601789589	9.95541826240795
Pt	14.00832165646680	14.00827959391210	9.92883050849396
Pt	18.10565181781546	16.12244615071721	7.92085242212812
Pt	20.06780679105820	14.10804417093243	7.93218916747251
Pt	20.07909098529649	16.12241879159892	9.89430298954295
Pt	22.03034150801145	14.07315970262685	9.91502549130631
Pt	9.98891566787519	18.06223713633143	9.93788666488459

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 Pt 14.07310286613564 22.03035300553297 9.91509576240627  
 Pt 7.93223880096851 7.93220773212428 14.10811141826286  
 Pt 9.91508151987154 5.96967823093274 14.07328256990526  
 Pt 13.97734172624094 7.96668275632637 11.99354434839914  
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 Pt 16.03461636381978 16.03471554129383 13.97961259930260  
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 Pt 11.99350088155137 20.03329965280400 13.97733404788823  
 Pt 14.00822910545939 18.07124770298530 13.99174171786939  
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 Au 13.96819876691893 3.97094715379546 20.00452093341529  
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 Au 11.81933814828115 5.82107782253155 20.18078597330607  
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 Au 16.11004153237210 5.82878517192155 20.17520439645495  
 Au 16.11004885842454 7.82474144937819 22.17114342050973  
 Au 18.21285586956621 7.72220579308425 20.27775693592196  
 Au 5.82101075623056 11.81920112562691 20.18088839440941  
 Au 7.78181332885991 9.78554451424077 20.21817238012529  
 Au 7.81910496983040 11.81921422474707 22.17894907894447  
 Au 9.79253263564759 9.79250774112692 22.19624705167426  
 Au 13.98338624040576 11.94235727790892 20.08446669671613  
 Au 16.06945871866289 9.87462828635845 20.11275182159018  
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 Au 18.18494591565157 9.76493019370349 22.24776615840484  
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 Au 20.07438871755699 11.86848073910564 22.10753371274020  
 Au 22.20141905230063 11.76596467950677 20.25556169260458  
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 Au 11.94237862863256 13.98339698853905 20.08442601206972  
 Au 11.93590635406141 16.02951237908037 22.08645465637123  
 Au 13.98265643098437 13.98265647379582 22.11852322353367  
 Au 18.11289411528139 16.09810490138332 20.12134258428106  
 Au 20.07991361562904 13.99998307996957 20.07998855181237  
 Au 20.25553353811305 16.23402773425025 22.20140131433793  
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 Au 7.72229552363228 18.21284696472931 20.27770142674275  
 Au 9.76506565202822 18.18489026409934 22.24761891522894  
 Au 9.82418004971662 20.10191366998421 20.17133684521308  
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 Au 9.94722529243592 11.93386379321248 24.09151458025197  
 Au 11.93387741262297 9.94719155602534 24.09150678019799  
 Au 13.95696512706382 11.94644322584051 24.13876013652915  
 Au 16.00059871525094 9.94806313927116 24.09104698250698  
 Au 18.00787260971592 11.96713980005110 24.11139013294425  
 Au 7.99550206743285 13.96817488539880 24.02892336901733

Au	9.94807083931164	16.00068187264397	24.09102108090142
Au	11.94647184409334	13.95694139151119	24.13874551336239
Au	14.00813817616197	16.00317531550721	24.19874798185019
Au	16.00317793786643	14.00811398104399	24.19876429242466
Au	18.01181280824160	16.04374210654319	23.94835595501728
Au	19.93468676348228	14.01806809471656	23.91634088708198
Au	11.96719159315085	18.00780282155064	24.11140856633133
Au	14.01805330177789	19.93472030478534	23.91627674589711
Au	16.04373499276646	18.01184230442126	23.94833141079950

**Pt<sub>10</sub>Au<sub>295</sub>LEH-1523.297**

Pt	12.01557247594637	11.97850151069774	6.02382217592768
Pt	13.99208476646364	10.03376553986844	6.07313866797044
Pt	15.97461658281472	11.97109768814916	6.02541543323917
Pt	10.04428786444907	13.95479917586184	6.04424623216977
Pt	12.00319932060258	15.91135913008137	6.02201053333605
Pt	13.98820211254693	13.95259054009933	5.98673001564860
Pt	15.96870204113149	15.90677541344670	6.03284835688435
Pt	17.93317320576516	13.94472223715567	6.05937677544037
Pt	11.96699270010701	7.99283152975979	9.95424405958639
Pt	14.00792608746841	6.07394841433038	10.01350419959053
Pt	14.00825107560098	8.03595003521850	8.02403018488496
Pt	16.05180775162031	7.98193438944742	9.93445171627582
Pt	8.03741575591877	11.95215404386768	9.96178400279261
Pt	10.01669765536706	9.97766315204120	9.95853392751461
Pt	9.98875384013153	11.93445893565264	7.97856835227504
Pt	11.95832098075826	9.96952840633308	7.98997568192958
Pt	12.00901310314483	11.98522458524228	9.97906228608677
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Pt	13.99551323202496	11.96337378233996	8.00368701607497
Pt	16.04171805153919	9.95334531401854	7.98257220527525
Pt	15.97478313579322	11.96764688499639	9.96854236433762
Pt	17.98790335658980	9.94666276828578	9.93812097172599
Pt	18.00008363967168	11.91682242724241	7.97483903431576
Pt	19.95741476405557	11.90708981160176	9.94566350942598
Pt	8.06347188880489	13.96539630094624	8.03040975840790
Pt	8.02909719120698	15.97931226018645	9.95625771430797
Pt	10.02953628588073	13.96871199633651	9.97557316590266
Pt	9.99612142402054	15.99538362730920	7.97908496546387
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Pt	12.01474114404861	15.95182592307835	9.97679077335903
Pt	13.98914776040620	13.94742062641626	9.96023826840826
Pt	13.99060209658713	15.95065560507574	8.01276784581453
Pt	15.98256432061851	13.95429847852201	8.00286787751037
Pt	15.97664709073909	15.94681006119134	9.97428111846889
Pt	17.95770737027669	13.94936202770626	9.97732977529486
Pt	17.98815847442162	15.96768089635104	8.00135215627527
Pt	19.93144674022769	13.92882710253418	8.02671896893268
Pt	19.95767507645023	15.94615337204173	9.97071249510132
Pt	10.00371798738188	17.96574907255239	9.95556720840491
Pt	11.96148023777886	17.94825911967618	8.00409918211193
Pt	13.97798290333707	17.95950108954451	9.98373909973171
Pt	10.01601747808244	8.01491594947074	11.92557115752990
Pt	12.02973062854357	6.01772495444650	11.95377056469427
Pt	12.00770854908020	8.00380619298726	13.95321081971550
Pt	14.01029975455131	6.00435304859995	13.92650714277855
Pt	13.99355761451348	8.01538035655158	11.94513842803874
Pt	15.99436300312184	6.03380643146928	11.94853914439680
Pt	15.98128577407362	8.02142903262913	13.93120910565515
Pt	17.92398613984257	6.06885506981410	13.94184965158913
Pt	18.00406398308194	7.97446998909893	11.90119860770896
Pt	19.91310428192465	8.03789730205756	13.92789717230843

Pt	8.05226061832330	10.00162842115770	11.92327973399659
Pt	8.03566467196168	11.99036632043818	13.93881399755188
Pt	10.02621046805593	9.99079476796045	13.97476370721879
Pt	10.02184396343242	11.97879816409746	11.97041222341744
Pt	12.01071117625424	9.99648602069107	11.96780630769665
Pt	12.00724773501480	11.99303469134297	13.94379597400647
Pt	13.99144410670649	9.97634404330738	13.93858150380417
Pt	13.99246597047923	11.97482005769413	11.95570901767406
Pt	15.97398902221861	9.97514310455945	11.93974657306515
Pt	15.97529730079642	11.97120352680328	13.94487367730956
Pt	17.94312453954691	9.99257457807404	13.92344741142068
Pt	17.96969741579026	11.96229657063389	11.94180986538093
Pt	19.95005374032596	9.95189167950131	11.89950247329599
Pt	19.95083253834094	11.94913324461801	13.92250563972765
Pt	8.03256339643298	13.96661479328853	11.93650635515332
Pt	8.05228700714421	15.93776941027130	13.92139387346688
Pt	10.00257925034245	13.96910108013432	13.96411387694982
Pt	10.02559610807698	15.96574117866514	11.95294402080346
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Pt	15.98757177780724	13.94474063964200	11.96843052296576
Pt	15.96772744488646	15.95940555737932	13.95387574461976
Pt	17.98772368912200	13.94899381154285	13.95896214737633
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Pt	19.95545805004186	13.93110314224690	11.94866282262405
Pt	8.03523203253764	17.93920256214577	11.91422050756944
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Pt	11.99925475286636	17.98928641121190	11.94278510394585
Pt	11.98311999695941	19.99064132563227	13.92947976449697
Pt	13.95257543390924	17.99480909354137	13.92401888652913
Pt	13.97245129229441	19.99530528890741	11.94574423024164
Pt	15.96416924414199	17.96572636254634	11.95402880550431
Pt	13.98703823707591	8.01973443797356	15.94862977336695
Pt	15.96901800710967	6.03402213523178	15.91023953384577
Pt	15.99126683492582	8.03434905868298	17.94485332178203
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Pt	10.01364474913963	11.96445140327846	15.96166136529841
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Pt	11.98801080787685	11.94867203470411	17.99820066212652
Pt	13.95855255837462	9.99367924024574	17.94372802739406
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Pt	19.93970978841093	9.98126192875030	15.93676548842052
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Pt	13.97043122242250	15.95209648051934	15.95507524603643
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Pt	11.99140033882272	13.93906933498445	20.00312534831944
Au	11.88826440442437	7.90839663940725	5.92516018979707
Au	13.99637254353938	5.99995561824719	5.99680090409936
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 Au 16.01258962604119 10.00483232494382 3.96272379834152  
 Au 18.12612736306142 9.86329379874297 5.87981385988250  
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 Au 5.85908933435176 11.86167504588571 7.89891223763347  
 Au 7.87073704847077 9.87691790282257 7.91198374721513  
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 Au 22.17165740532160 9.84162294838792 9.84295114908956  
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 Au 3.85087854270133 16.03549677558838 9.94602990517533  
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Au	16.02922541007217	18.03252002094498	7.94065619341808
Au	16.03109970507900	20.07130064076474	9.92966764870024
Au	18.02945286082448	18.03470784644640	9.94529733356732
Au	18.20746146776977	20.24546468115954	7.80472510648701
Au	20.11212705088376	18.13040236878008	7.92641560657758
Au	20.26750792025639	20.28800672226360	9.75847051318454
Au	22.20806990626383	18.18940419819155	9.81669291208391
Au	9.76340597613962	22.27023438459429	9.74931943391843
Au	11.75810386090001	22.26645088736574	7.75405947942287
Au	11.93865402775091	24.14306308367385	9.94060902091275
Au	13.98263653867124	22.06237611840517	9.95951921242547
Au	13.99678315817102	24.01395162255698	7.99861749780436
Au	16.20899651427828	22.23158032720264	7.79310803950309
Au	16.05103912745886	24.16137172806799	9.93582277143492
Au	18.23737555128416	22.28398856922528	9.76336117139534
Au	8.01674622134513	4.00223412348570	13.97843424773925
Au	9.99074297084675	3.91243540806129	11.95135514006877
Au	12.04893957520252	3.82736152660258	13.93492361823052
Au	14.01348692122921	3.88063434664697	11.95350014517830
Au	15.97736305285347	3.88403671258164	13.94498241211877
Au	17.99117589945167	3.97235852457826	11.96257019404611
Au	19.90755771920682	4.08170748628908	14.00058367188464
Au	3.99312785129552	8.00740906542512	13.98255615920291
Au	5.94635947291296	5.94710027025360	13.98968570819257
Au	5.78194635650943	7.80657459555583	11.79975201975334
Au	7.77901651956635	5.77956062555709	11.79016248719697
Au	7.96289869061626	7.95294530825434	13.88651800764593
Au	9.99996194039539	5.97850800185152	13.90867885536338
Au	20.10121866178959	5.92419519807905	11.88289515882335
Au	21.99774212596997	6.04797976955585	14.00287330010638
Au	22.14087820814931	7.88497712014033	11.85082723491228
Au	24.04276830161257	8.02153011316703	13.99785494290298
Au	3.83305339491404	9.94820740829385	11.92561948245559
Au	3.70806522340847	11.98737402700082	13.94482022028288
Au	5.97319298378008	9.97926127426739	13.90675286808717
Au	5.93551479610639	11.95844462629283	11.91208989907429
Au	22.00350821230728	9.94417373572576	13.94484043309941
Au	22.04626623413533	11.91740689524718	11.91850651488694
Au	24.15503268477325	9.95192112123583	11.94019913749860
Au	24.29989304004734	11.94856622868883	13.96287816279405
Au	3.71792439656002	13.97865810881889	11.93954926113162
Au	3.70927019368806	15.96647177128265	13.95222725811742
Au	5.89278810231226	13.96476102911472	13.91835228090433
Au	5.93203323153639	15.97280911451865	11.92176565832468
Au	20.04787196148705	15.97169957905049	13.92766695970604
Au	22.13601630685756	13.91354011797295	13.91463700917739
Au	22.09213957861877	15.96740884874731	11.89958113791516
Au	24.29441107665958	13.95399910264282	11.94748807408893
Au	24.25114674682368	15.97025453867816	13.95330753652544
Au	3.87518187761822	18.01525338417859	11.93949624360796
Au	4.03721977169900	19.96260002708563	13.98576597885877
Au	5.99271055601048	17.95801244082759	13.91609770539292
Au	5.85704883727282	20.14866133500433	11.81642914031086
Au	7.96134206358531	19.99735381505845	13.92845352680147
Au	9.93799319295267	20.04962306165112	11.89836261034196
Au	16.00385892743448	20.05620383754317	13.92124271771898
Au	18.03932592405357	18.02959668904990	13.91124222481665
Au	18.10408849595321	20.12741018993231	11.86157031756953
Au	20.10401731540531	18.05612672040544	11.85351051669087
Au	20.09476433860687	20.07149215033231	13.94839659168065
Au	22.07075739966281	18.00986310964793	13.95194266231840

Au	22.27114032931663	20.26319177668337	11.75019612260967
Au	24.12127410525467	18.04812202713874	11.93182086206032
Au	24.00040233444019	20.00235752661369	13.99071353773902
Au	5.97450409338216	22.03564847442184	13.98601648937518
Au	7.77487772960134	22.25475147997990	11.75502852115234
Au	8.00815883293265	24.00526554546748	13.98666170706221
Au	9.97795178436797	22.05426265569892	13.95122413442896
Au	9.95411101174780	24.14054146584221	11.92791345674393
Au	11.96274846659371	22.10247759292268	11.93679753548175
Au	11.97517467918260	24.36533740701937	13.96376457440820
Au	13.96003452941857	22.17068081720577	13.92158985456514
Au	13.98259778309849	24.36964738068421	11.95152226031880
Au	16.00134013933786	22.14943677249942	11.93880421676779
Au	15.99782937502073	24.30435883736517	13.97217013915161
Au	18.04795140540243	22.08377355528086	13.96576491306546
Au	18.06168484304270	24.14500162437028	11.93404518363300
Au	20.26690692714838	22.28258348787852	11.75589010532876
Au	20.02392746425515	24.02346925445931	13.99194019212719
Au	22.07465641762034	22.07376966716417	13.99505633559519
Au	10.00365999828747	3.92839908070832	15.98987863728724
Au	11.99343859398950	3.92810661993786	17.99651450956291
Au	14.03272881918107	3.81879807618541	15.93847708695802
Au	16.02866930216632	3.95683140325435	17.98745689779479
Au	17.95276248044979	4.01372881212508	15.99270625349192
Au	5.80215662743182	7.79341792607246	16.17263677380010
Au	7.81350597649268	5.80287999330569	16.16236077965607
Au	7.79741439656838	7.78663814324718	18.18289123691483
Au	9.82577553770277	5.80382694151683	18.16549697002521
Au	9.93310810049054	7.91046922773033	16.00666876978723
Au	12.02546991036787	5.93210867351913	15.94802507586508
Au	11.94529434206195	7.91047368380313	18.03684588549653
Au	14.04654983082700	5.98117236100487	17.97436857226028
Au	18.03347282864198	5.99200328665527	18.07352850518507
Au	20.02767343449637	6.01023031908756	16.06108838740395
Au	20.05293396998379	8.01791641640148	18.07368153795571
Au	22.08472097618116	7.94975970070143	16.10562876120778
Au	3.92003341610184	9.96831731510606	16.00220605653161
Au	3.91893328910590	11.94643665187710	18.00527999806445
Au	5.80173653525347	9.79411490972438	18.18062100131567
Au	5.92368639061348	11.98355946998570	15.93477031745510
Au	7.92679937084397	9.92388590295026	15.99693504163874
Au	7.92941491954892	11.93147792842389	18.02655197336314
Au	9.93321850040297	9.91540085579415	18.03715174915732
Au	20.07295042196516	11.83203845536358	18.04291828999262
Au	22.22770506497530	9.81853791025384	18.19476590979283
Au	22.08625025989084	11.89480316847035	15.96540002471133
Au	24.16584799579476	9.95883380733625	16.03195556795805
Au	24.12380700221087	11.93851652651218	18.04058185102911
Au	3.70075885602064	13.97982716264025	15.95642201861268
Au	3.93958609951737	16.01938584697217	17.99392957344905
Au	5.97150086028004	13.97906874181293	17.94801145918639
Au	5.94746353668798	15.96083620784991	15.92977761199026
Au	7.96943092576324	16.00047959211175	18.01757628991022
Au	15.99799831750394	15.99013562367879	18.02466773330913
Au	18.03634770576705	13.93535417136427	18.02810731446230
Au	18.02771980258671	15.99375041551719	15.98232147402180
Au	20.04774864798731	13.92696173305610	15.97187736523588
Au	20.12051980781075	16.04833071852601	18.08467072975485
Au	22.06105578762006	13.93417449054238	18.01212678278018
Au	22.11302307643566	15.97124910732008	15.97772494291878
Au	24.25621779444132	13.95404404846893	15.97116565795218
Au	24.09317685555783	16.02718579368054	18.02387339479961

Au	3.94870540523651	17.99455259312249	15.99441422132610
Au	5.85179633806903	18.15661607932432	18.15821603465682
Au	5.83092131747172	20.17540658073362	16.17450774562711
Au	7.96945804773746	18.00919550740455	15.99316743760941
Au	7.84897865877642	20.16589276910268	18.16046516455816
Au	9.98282006812707	18.02649085737060	18.03183533703216
Au	9.97039934982436	20.04786803795600	15.99024623827756
Au	11.90574439407795	20.11498149705178	18.07642825003146
Au	13.93718221617194	18.02883662085317	18.03006892329028
Au	13.95237719163543	20.04705277874217	15.97080110858876
Au	15.98665417865057	18.01829922313896	15.96916636781200
Au	16.06765690441437	20.10467934321219	18.07851227874466
Au	18.11097657988369	18.09580148770768	18.09596762187003
Au	18.09451796668978	20.10657905191945	16.04621035520632
Au	20.11875913093904	18.08095996215076	16.04847549904164
Au	20.24722948050703	20.24446771312175	18.22380882114148
Au	22.23724370882069	18.22069030295329	18.22029452856808
Au	22.25588864924317	20.25029750694396	16.22810790631720
Au	24.08737265309833	18.02721322967260	16.03410410704660
Au	7.82036077135336	22.18667039474142	16.18009587166443
Au	9.79489278277076	22.23064228774557	18.20308523818196
Au	9.95323732468859	24.13233189841236	16.02907510861461
Au	11.96888431975370	22.13509971254872	15.95748440111888
Au	11.95154067646670	24.10890070377699	18.03442225751620
Au	13.98925639571180	22.07318919230016	18.01777959332660
Au	13.98875811655446	24.30470678670054	15.98003489005521
Au	16.00374702935298	22.12249862133139	15.97906881772283
Au	16.04888138601947	24.10336431462122	18.03657704693725
Au	18.22756555023709	22.23827477179176	18.22113275257196
Au	18.05273850591189	24.10849493746143	16.03980471108554
Au	20.25144111634058	22.25012308058537	16.22294689609247
Au	14.01322268546190	4.02268962455055	19.98024779843535
Au	9.79851618330222	7.77793256073599	20.20882752827208
Au	11.80814893956415	5.78588182218393	20.19966257916829
Au	11.79223413480888	7.77505555640512	22.21972940307831
Au	14.00772026785189	5.95839972773711	22.05336989503525
Au	14.02967806654002	7.93551941442605	20.02568166086720
Au	16.17927773175532	5.86241086957693	20.18474046228553
Au	16.24476460956004	7.77277152836820	22.27461536520690
Au	18.10559553223747	7.92738077503252	20.13788879307558
Au	5.77901640771288	11.75895151111790	20.22079843174394
Au	7.79076045371429	9.78628487348916	20.20717294563435
Au	7.76901015172523	11.76071608439588	22.24275599420119
Au	9.79195237135420	9.77824313920998	22.22569486948692
Au	9.92341159874947	11.91892710075988	20.07822738893849
Au	11.94404366569179	9.90076210643802	20.07616685426501
Au	11.98565606803840	11.95768560378711	22.11399217581729
Au	14.00817782746218	9.96874940472260	22.06112140198060
Au	16.02587196613850	9.94759500775078	20.04095119333155
Au	16.01845351566478	11.93476532611919	22.14267426590412
Au	18.24025789115717	9.76403765695519	22.29769656854044
Au	18.08912133441116	11.84820598973239	20.09002719064562
Au	20.22045326673811	9.80642329970040	20.24563487577096
Au	20.25444625868460	11.76706900158484	22.27728647912159
Au	22.25759390151809	11.75995173029995	20.25520710219174
Au	4.05281121517090	13.98937974433200	19.96162960080252
Au	5.96696446699580	13.98950116954229	22.04404176608661
Au	5.81256222407421	16.20329515294303	20.20133474457960
Au	7.95012856082967	13.97949910276349	20.04045320773261
Au	7.79610643804994	16.20773291750725	22.22804845447326
Au	9.98965110175542	13.97384162358854	22.07185628395377
Au	9.97813311659870	16.00337843464345	20.06336368644294

Au	11.97887449885231	15.96886062860637	22.15158314700189
Au	13.97532867248971	13.93142402561666	22.17881950397913
Au	13.95731212558220	15.98249714391944	20.05850036805079
Au	16.01144726548159	13.92772048152765	20.06301356230811
Au	16.01123761658720	15.98035752749087	22.13109055526674
Au	18.05837456693970	13.95147516473045	22.07994788764764
Au	18.10008007196841	16.04975769609318	20.11687659751193
Au	20.08833700730888	13.93544194329691	20.06474382009199
Au	20.24538277347645	16.21804630683739	22.24445389014492
Au	22.07167382674599	13.99834733005073	22.07120339831266
Au	22.25448687646584	16.22836836248062	20.24360373870063
Au	23.99933550508126	13.99741646067077	19.99938824146432
Au	7.84468954977906	18.16252035139972	20.17967638096904
Au	9.79087266068041	18.20564042343312	22.24807391783713
Au	9.79089281627643	20.22906533211192	20.23461061060014
Au	11.90503886719899	18.08485544644669	20.12756375833477
Au	11.76277668853323	20.25644061422097	22.26719969908082
Au	13.99338100108250	18.02171587156279	22.08374200320447
Au	13.99347109145949	20.08893820980753	20.09040163516458
Au	16.07189882685266	18.08219948091820	20.11338655336740
Au	16.24137585667476	20.25541478626912	22.25663284027192
Au	18.23359981125470	18.22830435873915	22.24757166285943
Au	18.23632198655022	20.24545575608817	20.24693890312665
Au	20.24922957992399	18.22972342682348	20.24546658284535
Au	11.76174663046440	22.25678629808841	20.26046448464680
Au	13.99728833372720	22.07872819930884	22.08268975764341
Au	14.00070501542923	23.99791018628513	20.00788161274419
Au	16.24086552646842	22.25206322815369	20.25377556445264
Au	14.00766840743896	8.00501176325474	24.01023507328371
Au	9.95569967637130	11.93187051427222	24.12508379855538
Au	11.95231728889190	9.94462467409986	24.13029389756422
Au	14.00185409604453	11.95494732513922	24.37547951507056
Au	16.06292218423897	9.93825401719308	24.17335734396237
Au	18.05876115621198	11.93888245937464	24.16067955638832
Au	8.00794812166666	13.99132990541962	24.00611363190302
Au	9.95339038267532	16.03975136803629	24.14912387758719
Au	11.98791358910214	13.97261611594087	24.37186713688344
Au	13.99931223159121	15.98709673001115	24.32198142940890
Au	16.00670163880149	13.97264610188697	24.31693227980185
Au	18.05453790563780	16.03518841839652	24.10935292244874
Au	20.02614486790663	13.99504000448445	24.03111713058604
Au	11.95007164381605	18.03683251959201	24.13028617654964
Au	13.99877211699964	20.00610406054088	24.00759547216850
Au	16.05359084921448	18.04008625097917	24.10694488619545

## Optimized PBE atomic coordinates (in Å) of Ag<sub>161</sub>Pt<sub>40</sub> and Ag<sub>158</sub>Pt<sub>43</sub> nanoparticles presented in Figure S1

### Ag<sub>161</sub>Pt<sub>40</sub>L<sub>1</sub>-632.307

Ag	14.53194910265009	14.53163903330994	4.26945201897516
Ag	12.49991653022300	6.37590997410565	18.63909512570650
Ag	8.41248255739754	10.44280225967036	18.69181326851403
Ag	12.50017382582750	4.41774994861133	16.55347847563215
Ag	20.58209163949304	12.50008951670340	16.55393289566509
Ag	10.46788002099185	14.53248393489071	20.72942516103550
Ag	10.46766056740267	18.57579101719195	16.57953584257669
Ag	20.62231049813733	14.48012446700583	14.51752626594360
Ag	20.62214009553045	10.52001320961134	14.51797316116372

Ag 10.46859360770162 14.53153174882850 4.26866788940089  
 Ag 10.44290621421287 8.41271280065413 18.69199832866594  
 Ag 4.37751468831616 14.47993924146297 14.51700875243941  
 Ag 14.53194302987791 6.42439261658444 16.58084221710018  
 Ag 6.42417090968417 10.46802062133916 16.58039677531274  
 Ag 12.50011317791372 6.37584195931005 6.36166585590047  
 Ag 14.55743890997547 16.58756204857787 18.69082776182318  
 Ag 14.47990116751587 4.37728258648144 10.48325150087007  
 Ag 6.41014632263652 8.44525163371843 14.55361579627702  
 Ag 14.53201183695389 6.42414977962247 8.42028101740282  
 Ag 10.51988465607936 20.62250783605650 10.48221337337783  
 Ag 8.44499825755653 6.40970730845513 10.44653068837584  
 Ag 10.44288085314689 16.58721565300863 6.30781376874589  
 Ag 18.58975956450150 8.44532474016720 14.55421291513068  
 Ag 14.47991938816712 20.62269880680313 14.51715681336884  
 Ag 6.42418675052339 14.53206836429418 8.41885205663879  
 Ag 6.41045424398007 6.41008806354968 12.50023188916277  
 Ag 8.44499984017392 18.59034088539866 14.55321509173960  
 Ag 18.58952447862927 6.41023204632636 12.50044255262544  
 Ag 6.37575793563127 12.50003523740095 6.36048679675067  
 Ag 18.58967762629414 16.55492837671499 14.55353286714344  
 Ag 16.54605351027175 8.45387221336406 16.58595985149143  
 Ag 6.42430607179980 10.46791413802611 8.41926945103453  
 Ag 6.41025833716781 16.55483210056994 10.44603854703294  
 Ag 16.54631983102596 16.54618043361562 16.58503025913840  
 Ag 14.53202713189095 18.57588264256198 16.57981649642774  
 Ag 16.55520016286361 6.40974840433244 10.44676039919183  
 Ag 12.49997251997099 4.37720361921115 12.50067008659976  
 Ag 10.52001677023337 20.62280663080784 14.51695577561942  
 Ag 14.48015986335910 4.37745506958576 14.51781453169303  
 Ag 12.50033298840011 12.49947362583744 4.15304443472627  
 Ag 8.44499735893910 18.59025370846922 10.44586422107155  
 Ag 10.46796344464671 6.42419572094400 8.42010757131362  
 Ag 12.50008843683973 20.62312870058920 12.49940561404807  
 Ag 18.58970229850265 8.44512898112056 10.44681924371331  
 Ag 10.44288080385542 8.41244136849685 6.30892263446595  
 Ag 16.55515593059205 6.41003084287600 14.55415872278467  
 Ag 14.53223349088189 10.46767046828728 4.27038656066082  
 Ag 14.55727143479793 8.41248720691558 6.30923561585183  
 Ag 18.58948566009601 18.59001933878776 12.49989136958957  
 Ag 6.41018902818230 16.55480963454281 14.55311778207259  
 Ag 16.55509234394480 18.59026405286766 14.55356607118802  
 Ag 18.57582927654950 14.53189750191455 8.41937462946685  
 Ag 10.46805527440828 10.46831709194665 20.73056635480977  
 Ag 6.41051677959800 8.44504372351343 10.44644378443253  
 Ag 8.45373709800537 8.45380486544320 16.58546265615499  
 Ag 18.58981234229957 16.55471861014404 10.44637418964962  
 Ag 18.62409983962528 12.50022837436449 18.63977311552268  
 Ag 14.53149138326122 14.53222370369967 20.73019751257310  
 Ag 8.41256400547154 10.44271530053513 6.30828482883522  
 Ag 14.53118373130136 10.46854306487687 20.73151194125875  
 Ag 4.37785250439494 14.47999469140229 10.48194114748904  
 Ag 16.55515578507367 18.59013281575815 10.44595641043430  
 Ag 4.37797668162005 10.51974192209328 10.48208095171638  
 Ag 12.50000159020355 18.62437345958392 18.63810484585673  
 Ag 16.58760791417456 10.44264754172280 6.30880847278838  
 Ag 8.41224266277854 14.55726814238088 18.69091144465309  
 Ag 10.44246936700957 16.58743426786251 18.69039108429206  
 Ag 20.62207315832775 10.52004346788632 10.48269341098825  
 Ag 4.37681377892496 12.50012440921564 12.49937095817588  
 Ag 14.53202821443531 18.57570184829568 8.41947371631796  
 Ag 16.58760284061020 14.55704287607481 6.30821926424242

Ag 6.41044625741510 18.59008947010299 12.49939900218962  
 Ag 6.37538416274877 12.49998171536573 18.63892845593123  
 Ag 18.57553952293019 10.46809014581684 16.58132208499467  
 Ag 8.44481634705689 6.40986341079358 14.55398447359407  
 Ag 4.37756175803851 10.52016352602730 14.51725546723180  
 Ag 8.45383457905785 8.45373630780531 8.41483516186143  
 Ag 10.52015131088385 4.37719612514275 10.48324290745781  
 Ag 20.62303097104822 12.49996032788739 12.50042011353104  
 Ag 16.54634900188222 16.54615176012473 8.41462102736861  
 Ag 20.62224000630780 14.47988806259271 10.48268920467055  
 Ag 16.54623734926203 8.45370065541502 8.41512106786320  
 Ag 18.62447561564956 12.49984402957371 6.36085436353399  
 Ag 18.57586890042143 10.46775569906276 8.41958803161316  
 Ag 10.51977927215142 4.37737392199930 14.51780077978020  
 Ag 18.57574258508652 14.53221365949483 16.58086009589373  
 Ag 6.42403244620690 14.53200007874899 16.58009639281105  
 Ag 8.45376619441804 16.54619132065830 8.41445907067122  
 Ag 16.58707749505054 10.44309550593435 18.69279608014108  
 Ag 14.48007246869704 20.62240206712686 10.48207913958571  
 Ag 8.41274750393755 14.55715308651350 6.30756360935733  
 Ag 14.55748454237192 16.58712475784210 6.30824514241099  
 Ag 14.55720082765392 8.41290002330595 18.69240717978827  
 Ag 10.46787340962145 6.42427963198189 16.58073810525743  
 Ag 12.49944309737097 12.50096704156075 20.84692397655691  
 Ag 16.58732141349211 14.55724707581641 18.69191640484575  
 Ag 10.46808222042229 10.46794757053095 4.26985011982462  
 Ag 10.46790203214646 18.57571778387832 8.41917811551310  
 Ag 8.45355313504638 16.54615499054791 16.58448351685739  
 Ag 12.50016245022540 18.62399717315196 6.36082952560714  
 Ag 16.54776629283677 12.50046696007366 20.64781288039988  
 Ag 12.50020133477727 8.45165115483825 4.35404372050254  
 Ag 16.54821265227238 12.49976786899762 4.35318166591583  
 Ag 12.49973983192915 8.45191298482014 20.64736771380596  
 Ag 20.58509678471771 16.54866078165377 12.50010954921102  
 Ag 12.50003364860458 20.58200630966198 8.44627911324441  
 Ag 12.49969167816924 16.54847139796756 20.64544512341196  
 Ag 12.49991068394091 4.41780955133864 8.44728154134378  
 Ag 16.54818524968871 20.58537944738865 12.49970700162640  
 Ag 20.58217735951449 12.49984078401992 8.44661092912797  
 Ag 4.41756546052649 12.50016768086490 16.55330059399385  
 Ag 8.45151901565956 20.58549982575230 12.49953041461495  
 Ag 4.41514628091224 16.54868230092680 12.49949752607025  
 Ag 12.50027734041683 16.54816825068733 4.35298514047735  
 Ag 12.4999884840437 20.58204166748586 16.55304942744937  
 Ag 8.45204433666175 12.50030331834606 20.64662754264197  
 Ag 4.41776942427727 12.49992028634450 8.44614367760635  
 Ag 16.54830280789388 4.41471835466872 12.50053098836440  
 Ag 8.45152258330429 4.41453872312039 12.50029826342200  
 Ag 20.58490570247823 8.45127687276999 12.50044982731546  
 Ag 8.45194405761646 12.50003244617872 4.35272236731297  
 Ag 4.41514422300922 8.45133753296214 12.49993853574927  
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 Ag 12.50015689678141 16.54160038593958 12.49976972016979  
 Ag 18.56123526875696 14.49965132466678 12.50010247674017  
 Ag 16.51974813313101 16.51938063288085 12.49977500994983  
 Ag 10.49504285526100 14.50470132911933 16.66622889180690  
 Ag 8.47353652229240 12.50003857795904 16.62164003718069  
 Ag 10.49376798061513 10.49367411715300 12.50021242471302  
 Ag 12.50002998794447 12.49997655730923 16.67948914735590  
 Ag 10.49992275305894 6.43871642750338 12.50033322673431  
 Ag 12.50009900826458 12.49988425584960 12.49990518984248  
 Ag 14.50644373959686 14.50622949244903 12.50004023835853

Ag	12.49999356320871	8.45827611552037	12.50045162372381
Ag	14.50630884818588	10.49376706282382	12.50003085959383
Ag	14.50497652637027	10.49516223703476	8.33369818074551
Ag	14.50007815343451	6.43874046811406	12.50049309516595
Ag	12.50013148646010	12.50015812027931	8.32054873586261
Ag	10.50002093732919	18.56120846763428	12.49971500195527
Ag	12.49995119240271	8.47385767016803	16.62207392447777
Ag	16.54172142363078	12.50002934800675	12.50018197876675
Ag	16.52648819385472	12.49989152989593	8.37795840932416
Ag	12.49994638821459	16.52615820303271	16.62109637048274
Ag	16.52626215599496	12.50008157681719	16.62243725699420
Ag	10.49363315390793	14.50624738547649	12.49961217356049
Ag	8.47380696255450	12.49999821947248	8.37767967092508
Ag	10.49510422013767	10.49517014859955	16.66677088104268
Ag	10.49528857283277	14.50479150162499	8.33309359553146
Ag	6.43886980132809	14.49967518202075	12.49961267124556
Ag	12.50002220214688	16.52603940282634	8.37793222599780
Ag	14.50502095636450	14.50474377014500	16.66644316451196
Ag	14.50007530194808	18.56112703035922	12.49969849460290
Ag	14.50475766567836	10.49514732561203	16.66706042635284
Ag	18.56106053451984	10.50040798208335	12.50041901614341
Ag	16.51932429145490	8.48075932370246	12.50044509028777
Ag	10.49514643051410	10.49520856573023	8.33340490214266
Ag	8.48041916921920	16.51940827116755	12.49966399690808
Ag	8.48066140937073	8.48061324137415	12.50019126475221
Ag	14.50500647691747	14.50471792536519	8.33329228956940
Ag	12.49998179078537	8.47380211279132	8.37894398449864
Ag	8.45834672824662	12.50013474961117	12.49996149901103
Pt	14.47174566909354	12.50012071444277	14.58627921669224
Pt	16.48532979221644	14.50545454678353	10.42249220980031
Pt	18.54901626152069	12.50000827165925	10.42230276535247
Pt	8.51484318770677	10.49437851273656	14.57757387295411
Pt	6.45097898892124	12.50002192575717	10.42176736458743
Pt	12.49992310573280	14.49468401155758	18.77821805092912
Pt	14.49471362871071	12.50005973306864	6.22127650054588
Pt	14.49440229484402	12.49995369091768	18.77923935029672
Pt	12.49989239565052	10.52849080914878	14.58641739047095
Pt	12.49995262629463	6.45099987430943	10.42279340890671
Pt	12.50025302074627	14.47147066296672	14.58578947648000
Pt	10.49407023502295	16.48503159597340	10.42238192579624
Pt	18.54901077003228	12.50004350280313	14.57834648113474
Pt	10.49418156948894	16.48511456631946	14.57699786509150
Pt	10.52857663646266	12.49976237702253	14.58607024595979
Pt	10.50536313530043	12.49991240150218	18.77853557293107
Pt	14.50597356628148	16.48517486971448	10.42249628932669
Pt	6.45078678909690	12.50005739903492	14.57750345349752
Pt	14.50584252785275	8.51493511267242	14.57773824515673
Pt	12.49994629921827	18.54897286996228	10.42196725931353
Pt	14.50591395874305	8.51490232236950	10.42311139826192
Pt	10.49416351141055	8.51493960184646	10.42294477449552
Pt	12.50003160179196	14.49438561247013	6.22087207492884
Pt	12.49986463676291	14.47144492693256	10.41390121060135
Pt	16.48512030418865	14.50556380299201	14.57754711140201
Pt	12.49991099481945	18.54898359062880	14.57722415941594
Pt	12.50006334297083	10.50567241653731	18.77923328589580
Pt	16.48529859693563	10.49444114846409	14.57795961644489
Pt	14.47149766551244	12.49988088546465	10.41392742342381
Pt	10.49405969897547	8.51506050676967	14.57751440779218
Pt	8.51468335492726	14.50546854665787	14.57720018209861
Pt	12.49993522522063	10.50541379719409	6.22142383913007
Pt	10.50542039499835	12.50007428303707	6.22097311554124
Pt	12.50020430152928	10.52858990167277	10.41420559885688

Pt	12.49991513183552	6.45105287745704	14.57823099661832
Pt	8.51476919142367	10.49446263392061	10.42242612271156
Pt	8.51492678917416	14.50553731370678	10.42225131550659
Pt	16.48517118519241	10.49430934828688	10.42272174668982
Pt	14.50594242391553	16.48504921495693	14.57705444447911
Pt	10.52861137193311	12.50028177791130	10.41386967786588

**Ag<sub>161</sub>Pt<sub>40</sub>LEH-633.801**

Ag	20.48964668351552	8.54420556574566	12.51090955148534
Ag	16.43573318035360	12.55444452608004	4.46521956876841
Ag	10.43876839953160	4.43631580818169	10.50472225418965
Ag	18.59478168608337	16.72674031213704	14.62371703678675
Ag	10.30598649281587	18.79529838790009	8.37740959945793
Ag	18.59808171339988	14.63854455382477	16.61040202626096
Ag	14.50045671273806	6.50227724309892	16.55877739515491
Ag	16.50562534740690	20.73377562841173	12.53188492128669
Ag	8.42191350232702	8.59531117816150	8.50934557441481
Ag	10.44460896501010	6.56432665167637	8.49931892102069
Ag	16.44749195721730	8.59104018118591	16.54059170333557
Ag	12.43432703299185	18.69330569936864	6.43450633367026
Ag	10.40922535694532	18.70403119009543	16.56345861285595
Ag	16.50771418090486	14.60061051993947	18.59370795993673
Ag	14.48654111067087	8.51905116732335	6.44028602814645
Ag	18.48980804692971	12.54420407254686	6.45799673750189
Ag	20.48560946085776	12.55112917764572	8.50988363131789
Ag	12.45529005877343	4.49866771843957	16.55623952295364
Ag	10.41766110641414	16.61161939154423	18.60293380599834
Ag	16.50610075803426	16.64997031427401	16.57769855727756
Ag	18.45606004663790	6.51012810793257	12.52506731073091
Ag	8.37229471669705	18.69530616862381	14.58126500231336
Ag	8.37492284596588	10.49971332862509	6.38889265826038
Ag	8.38086106225086	10.51989629805078	18.62373425210067
Ag	12.46611227493336	4.35084935411576	12.51474053994908
Ag	14.48932090070593	10.52739652273650	20.71100864165806
Ag	10.41921279611910	20.83539223083343	14.54528952868637
Ag	6.25278609543618	16.70315886892637	14.63022527234106
Ag	12.46838885425758	8.50986463479645	20.63031224652036
Ag	20.56512914825008	10.54280813897746	14.51750915327980
Ag	6.30700225406602	10.50528045250466	8.44810059827227
Ag	6.29528748565011	14.64937664620339	8.40883303493982
Ag	4.31927185176087	8.49528603787402	12.51232920401239
Ag	12.47103787938023	12.55296539082445	20.83791587122556
Ag	10.43471293758247	4.41664724122246	14.53236134204904
Ag	12.45217906198676	6.55966562221696	6.48501453163905
Ag	18.48863592363337	8.51918577071363	10.49759533651530
Ag	16.48408630293265	14.60941541368859	6.47071050415650
Ag	8.38156178586287	20.70879637115698	12.53755991887691
Ag	6.29596994934619	16.68499845182427	10.43211348659429
Ag	14.48303244911219	4.40963059967108	14.54014667913135
Ag	10.44977627180329	14.54689666058339	20.68338545367741
Ag	14.47350459026031	14.58186720953464	4.44257089482723
Ag	8.39907489655366	14.59953537693732	18.58362823782484
Ag	4.29786020653646	12.54988883834809	16.56844784724614
Ag	10.41975892704577	8.53524191717888	18.61047133360141
Ag	8.33724957195722	14.64586036325075	6.38329345262705
Ag	14.47629388619127	10.52026619659935	4.38290116125738
Ag	10.41969063315721	6.51015338784261	16.55347655759910
Ag	16.60638611551656	18.81541460976674	14.66788539357644
Ag	18.53896016906956	18.70500263738506	12.53216338225880
Ag	8.38287462956068	12.57046732174951	20.61752782189773
Ag	12.46520725831710	16.60422636356360	20.61429173080342
Ag	16.46253528410093	6.53831427923828	14.52908426851610



Ag 4.32010537592230 12.53787101400676 8.46003372808361  
 Ag 14.49117254322867 16.61897177491289 18.58981693901229  
 Ag 4.22803821149946 10.52740378066107 14.53260515690239  
 Ag 18.56643129826175 12.54428990372239 18.62620364765905  
 Ag 14.55792911220551 16.76296447237426 6.36851164751436  
 Ag 6.32325468006115 8.51580342909064 14.56509289869398  
 Ag 10.43685185865578 8.57271803510619 6.45194305816160  
 Ag 20.49999190361801 14.57455764686931 10.50305187658616  
 Ag 12.44923898700849 18.68808589529477 18.62933776517179  
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 Ag 12.44142181169125 20.71126454986887 8.48086574591076  
 Ag 20.61101951317156 14.59362069557499 14.55336287053238  
 Ag 16.58952234689765 18.83501396363720 10.40305408280955  
 Ag 12.45522070212792 4.50054899574140 8.48773602296561  
 Ag 8.41299185001375 12.54520960982144 4.41386388764583  
 Ag 8.41387301440880 4.49339491717055 12.52439215883011  
 Ag 14.49893862540164 20.83234721720084 10.47745281740843  
 Ag 14.46630211994106 6.54584480119850 8.51092575006606  
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 Ag 16.48934172217217 10.51341382014755 6.43707800821503  
 Ag 18.47718932341222 8.56983034071737 14.51994202167614  
 Ag 12.44752944437716 18.77590716784082 10.51705941487569  
 Ag 12.45980756409895 6.47456861848387 18.61659396377768  
 Ag 12.43926274462201 20.70413301726146 16.57063718588842  
 Ag 10.41654674867846 14.57930301053190 4.36822073195283  
 Ag 10.34777863583746 16.70116267376369 6.37894138868763  
 Ag 8.40335635843505 6.50556098844156 14.55580763488304  
 Ag 16.47723498653452 8.54664834376851 8.48857836758592  
 Ag 14.49272434144171 20.80047832133411 14.56876814720276  
 Ag 16.48874810187546 4.43790088018998 12.52527205212713  
 Ag 20.59694947731135 12.55173611380606 12.49875205616535  
 Ag 18.56885468809338 10.50534527462654 16.61724559995512  
 Ag 8.30901835371506 18.75956359558114 10.42634566241588  
 Ag 14.54891006165264 18.78419463658685 16.63337752284379  
 Ag 4.24422180507395 14.57381916078760 14.54605456188799  
 Ag 18.58619818528939 16.76720326827988 10.41684383347253  
 Ag 12.45709730526077 20.94834387272086 12.52342195074705  
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 Ag 4.33702465758813 16.59884913263597 12.51362127807474  
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 Ag 6.26963976014665 14.64856130257209 16.61790504314989  
 Ag 6.32230449081759 12.54792421112903 18.62030760840150  
 Ag 16.56453841868032 16.78113229298918 8.40007510484227  
 Ag 20.52568511628351 16.61405968801825 12.52378063261532  
 Ag 8.43999084832505 8.59552335640962 16.52846047072062  
 Ag 18.47953009661400 14.60169279110727 8.48244590493866  
 Ag 8.42709706678157 16.60017232516329 16.53017560024118  
 Ag 4.27323600809543 14.57954251611637 10.47969065033278  
 Ag 4.10390460171377 12.55731091734208 12.51496670861093  
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 Ag 10.44452525558238 10.55849288091712 20.68469140361285  
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 Ag 10.40262486715100 20.77570584254052 10.50694901219443  
 Ag 8.41110988792260 6.51542774699563 10.47777673154177

Ag 4.21916081528140 10.51898406550881 10.49639968268442  
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 Ag 10.42322333185211 10.51824639425448 4.30420031343023  
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 Ag 8.37828563634723 12.57677490021487 8.45869478984261  
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 Ag 14.47071433751254 16.71967684127656 10.49744410008869  
 Ag 8.38528483009271 8.55748327669296 12.51180874500762  
 Ag 8.37512367141251 14.59932727542102 14.51308949223329  
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 Ag 10.41892828593844 12.54814432017474 6.41129828304804  
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 Ag 6.29470709076277 12.55360042138192 14.53063885736709  
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 Ag 18.53997255283347 14.60993131651852 12.53016830895224  
 Ag 10.42569205659737 14.62077033006695 8.46228672655341  
 Ag 16.51241198988466 16.70567721236746 12.51542810268945  
 Ag 12.46264406128651 10.57222200050834 18.61916546372467  
 Ag 14.45984511302228 14.64740959293839 8.47643236543832  
 Pt 10.45801336581706 10.60685166250550 16.53311379355454  
 Pt 12.45537855012849 12.56928700993665 16.47114613352531  
 Pt 12.43521253041777 14.62171036366233 14.49594199760809  
 Pt 14.45290560460064 12.61414291815853 14.48706401197136  
 Pt 10.46129019083331 14.60814106164751 12.51821495257817  
 Pt 10.47528195947327 16.62743138728958 14.50298230918362  
 Pt 12.42279171247468 10.60634415197430 10.51423571603002  
 Pt 12.47170753502671 8.63438009009922 8.53558924822520  
 Pt 16.46394792505034 12.59191747244141 12.51284231014790  
 Pt 14.44699926789023 10.61479839970237 16.51057699495094  
 Pt 12.45297571602704 12.58767300273182 8.52259726293081  
 Pt 14.44655327423357 8.64087212268953 14.48800673168603  
 Pt 12.43094732275816 10.58709073824131 14.52173598837442  
 Pt 10.46137500611215 12.58443133210789 10.52274348139406  
 Pt 10.47232766580067 14.57706644723918 16.51091410403166  
 Pt 16.47645826521204 10.59546708744325 10.51363086703280  
 Pt 8.39686479485496 10.59808370447470 14.53189538692541

Pt	16.47959213704413	10.60280392174228	14.51711425393304
Pt	18.48120111093651	12.54473538546004	10.51374966258652
Pt	8.42027534233791	12.56048329083322	12.51185300406522
Pt	14.43755051468523	12.58855159516547	10.52433914006948
Pt	18.49189240992374	10.59032447828989	12.49759537521440
Pt	10.44266841835903	10.61140639021432	8.51533683796856
Pt	12.44201708935360	16.63355696693178	12.51084870459235
Pt	10.40107796478944	10.61038733749213	12.54349576917020
Pt	16.45836996559638	12.54923845798759	8.50855874586131
Pt	14.44918350916746	10.62159316486086	12.54450111536591
Pt	10.44282617624749	12.57642567726269	14.48518800563407
Pt	14.45141626711076	14.62790705573133	12.50024794403758
Pt	10.46306930015192	8.64696287847722	10.52091447035354
Pt	12.43778193470330	14.64756380321246	10.50559665017262
Pt	10.44370984724315	8.61804607657356	14.50853615584634
Pt	14.42940972319213	14.57858266751057	16.52784407621601
Pt	8.40670873396667	10.61080465803305	10.51147852951128
Pt	14.45872579587655	12.54954354769453	6.47756742571316
Pt	12.43941105236605	8.61303763349768	12.52914984247164
Pt	12.46213534597399	12.62143931768964	12.48264829584479
Pt	16.42912377895005	8.62493374284524	12.50241345243115
Pt	14.43640508331964	8.66964490035535	10.54574262213402
Pt	14.46442690961426	10.60299307180019	8.51365663715359

#### **Ag<sub>158</sub>Pt<sub>43</sub>L<sub>1</sub>-645.077**

Ag	20.62306374032496	8.45077398767555	12.52406638551157
Ag	16.53550846631271	12.49281244347260	4.36095030643278
Ag	10.47751733632905	4.28424587107382	10.47751733632905
Ag	18.61851619182606	16.59344487913657	14.54719557978727
Ag	10.39600437934740	18.66331423164135	8.36549735091817
Ag	18.57861155184207	14.49529311848059	16.56772070471313
Ag	14.60397062065267	6.33668576835866	16.63450264908183
Ag	16.53550846631271	20.63904969356722	12.50718755652740
Ag	8.41063930357533	8.40916795018774	8.41066430357527
Ag	10.49772537538191	6.44247967613867	8.49012598713885
Ag	16.63404618847453	8.36595381152547	16.63402118847459
Ag	12.46642702119083	18.60955797171303	6.39046702828708
Ag	10.45280442021273	18.61854119182600	16.59341987913645
Ag	16.56774570471307	14.49529311848059	18.57861155184207
Ag	14.50227462461809	8.49012598713885	6.44250467613861
Ag	18.54351045333435	12.50000000000000	6.45648954666565
Ag	20.63904969356722	12.50718755652740	8.46451653368740
Ag	12.52409138551168	4.37693625967505	16.54920101232451
Ag	10.49772537538191	16.50987401286115	18.55749532386139
Ag	16.58933569642473	16.59083204981226	16.58933569642473
Ag	18.60955797171303	6.39044202828697	12.53357297880917
Ag	8.43225429528693	18.57863655184201	14.49531811848052
Ag	8.43225429528693	10.50470688151941	6.42138844815792
Ag	8.40655512086344	10.45282942021284	18.61851619182606
Ag	12.53979875051816	4.38697340837479	12.53977375051805
Ag	14.54355583553392	10.45644416446607	20.66274769618725
Ag	10.47505272343466	20.59767328663794	14.48524179049953
Ag	6.42138844815792	16.56774570471307	14.49531811848052
Ag	12.52409138551168	8.45077398767555	20.62306374032496
Ag	20.66274769618725	10.45644416446607	14.54358083553386
Ag	6.42138844815792	10.50470688151941	8.43225429528693
Ag	6.33668576835866	14.60397062065267	8.36549735091817
Ag	4.36095030643278	8.46451653368740	12.50718755652740
Ag	12.53979875051816	12.46022624948195	20.61300159162509
Ag	10.51475820950046	4.40232671336206	14.52494727656534
Ag	12.50000000000000	6.45648954666565	6.45648954666565
Ag	18.57861155184207	8.43225429528693	10.50470688151941

Ag 16.59344487913657 14.54717057978715 6.38148380817394  
 Ag 8.45077398767555 20.62306374032496 12.47590861448832  
 Ag 6.33668576835866 16.63450264908183 10.39602937934733  
 Ag 14.54355583553392 4.33725230381275 14.54358083553386  
 Ag 10.47751733632905 14.52248266367095 20.71575412892618  
 Ag 14.48521679049942 14.52492227656541 4.40232671336206  
 Ag 8.49012598713885 14.50227462461809 18.55749532386139  
 Ag 4.36095030643278 12.49281244347260 16.53548346631260  
 Ag 10.50468188151947 8.43225429528693 18.57861155184207  
 Ag 8.36547235091823 14.60397062065267 6.33671076835859  
 Ag 14.52248266367095 10.47751733632905 4.28424587107382  
 Ag 10.50468188151947 6.42136344815799 16.56772070471313  
 Ag 6.39072357205721 10.48123165105712 12.49307888758714  
 Ag 18.54351045333435 18.54351045333435 12.50000000000000  
 Ag 8.46449153368728 12.50718755652740 20.63904969356722  
 Ag 12.49281244347260 16.53548346631260 20.63904969356722  
 Ag 16.63452764908177 6.33668576835866 14.60399562065260  
 Ag 4.37693625967505 12.52406638551157 8.45077398767555  
 Ag 14.54717057978715 16.59344487913657 18.61851619182606  
 Ag 4.28424587107382 10.47751733632905 14.52248266367095  
 Ag 18.60955797171303 12.46642702119083 18.60955797171303  
 Ag 14.49529311848059 16.56774570471307 6.42138844815792  
 Ag 6.44250467613861 8.49012598713885 14.50229962461803  
 Ag 10.45280442021273 8.40655512086344 6.38148380817394  
 Ag 20.71575412892618 14.52248266367095 10.47751733632905  
 Ag 12.50000000000000 18.54351045333435 18.54351045333435  
 Ag 14.52494727656534 4.40232671336206 10.51478320950058  
 Ag 12.47593361448843 20.62306374032496 8.45077398767555  
 Ag 20.59767328663794 14.48521679049942 14.52494727656534  
 Ag 16.59344487913657 18.61851619182600 10.45282942021284  
 Ag 12.49281244347260 4.36095030643278 8.46451653368740  
 Ag 8.45077398767555 12.52406638551157 4.37693625967505  
 Ag 8.46449153368728 4.36095030643278 12.49281244347260  
 Ag 14.48521679049942 20.59767328663794 10.47505272343466  
 Ag 14.54717057978715 6.38145880817401 8.40655512086344  
 Ag 14.49529311848059 18.57863655184201 8.43225429528693  
 Ag 16.50987401286115 10.49772537538191 6.44250467613861  
 Ag 18.66328923164141 8.36549735091817 14.60399562065260  
 Ag 6.38148380817394 8.40655512086344 10.45282942021284  
 Ag 12.53357297880917 6.39044202828697 18.60955797171303  
 Ag 12.50721255652751 20.63904969356722 16.53548346631260  
 Ag 10.45641916446614 14.54355583553392 4.33725230381275  
 Ag 10.39600437934740 16.63450264908183 6.33671076835859  
 Ag 8.40655512086344 6.38145880817401 14.54719557978727  
 Ag 16.58933569642473 8.41066430357527 8.40914295018763  
 Ag 14.52248266367095 20.71575412892618 14.52248266367095  
 Ag 16.54922601232444 4.37693625967505 12.52406638551157  
 Ag 20.61302659162520 12.46022624948195 12.53977375051805  
 Ag 18.66328923164141 10.39602937934733 16.63450264908183  
 Ag 8.36547235091823 18.66331423164135 10.39602937934733  
 Ag 14.50227462461809 18.55752032386133 16.50984901286104  
 Ag 4.40232671336206 14.52492227656541 14.48524179049953  
 Ag 18.55749532386139 16.50987401286115 10.49772537538191  
 Ag 12.46022624948195 20.61302659162520 12.46020124948183  
 Ag 18.61851619182606 10.45282942021284 8.40655512086344  
 Ag 4.37693625967505 16.54922601232444 12.47590861448832  
 Ag 16.63452764908177 10.39602937934733 18.66331423164135  
 Ag 14.52494727656534 14.48521679049942 20.59767328663794  
 Ag 12.46022624948195 12.53977375051805 4.38697340837479  
 Ag 6.39044202828697 12.53357297880917 6.39046702828708  
 Ag 6.45648954666565 6.45648954666565 12.50000000000000  
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 Ag 16.56774570471307 6.42136344815799 10.50470688151941  
 Ag 6.38148380817394 14.54717057978715 16.59341987913645  
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 Ag 16.59085704981238 16.58933569642473 8.41066430357527  
 Ag 20.63904969356722 16.53548346631260 12.49281244347260  
 Ag 8.40914295018763 8.41066430357527 16.58933569642473  
 Ag 18.55749532386139 14.50227462461809 8.49012598713885  
 Ag 8.41063930357533 16.58933569642473 16.59083204981226  
 Ag 4.33725230381275 14.54355583553392 10.45644416446607  
 Ag 4.38699840837491 12.53977375051805 12.46020124948183  
 Ag 12.50721255652751 8.46451653368740 4.36095030643278  
 Ag 10.51475820950046 10.47507772343459 20.59767328663794  
 Ag 12.47593361448843 16.54922601232444 4.37693625967505  
 Ag 10.45641916446614 20.66274769618725 10.45644416446607  
 Ag 8.49012598713885 6.44247967613867 10.49772537538191  
 Ag 4.40232671336206 10.51478320950058 10.47505272343466  
 Ag 20.62306374032496 12.47593361448843 16.54920101232451  
 Ag 10.47505272343466 10.51478320950058 4.40232671336206  
 Ag 6.44250467613861 10.49772537538191 16.50984901286104  
 Ag 8.36595381152547 16.63404618847453 8.36595381152547  
 Ag 16.54922601232444 12.47593361448843 20.62306374032496  
 Ag 10.49662321518709 10.45296654283357 16.58130723140990  
 Ag 12.53143349820919 12.46859150179093 16.59946370452671  
 Ag 14.55036078461845 12.46508135124663 14.55036078461845  
 Ag 10.44963921538155 14.55033578461851 12.46505635124670  
 Ag 10.48120665105718 6.39069857205727 12.50692111241287  
 Ag 10.45294154283345 16.58133223140984 14.50337678481291  
 Ag 16.59948870452682 12.46859150179093 12.53140849820908  
 Ag 14.50337678481291 16.58133223140984 10.45294154283345  
 Ag 12.46859150179093 12.53140849820908 8.40051129547318  
 Ag 8.41866776859017 14.54703345716643 14.50337678481291  
 Ag 12.53494364875331 10.44966421538149 14.55036078461845  
 Ag 10.44963921538155 12.53491864875337 10.44963921538155  
 Ag 16.58133223140984 10.45296654283357 10.49662321518709  
 Ag 16.58133223140984 14.50335178481297 14.54705845716655  
 Ag 12.50694611241298 14.51876834894288 18.60927642794279  
 Ag 14.51879334894282 18.60930142794273 12.49307888758714  
 Ag 16.50987401286115 18.55752032386133 14.50229962461803  
 Ag 6.39072357205721 12.50692111241287 14.51879334894282  
 Ag 18.60927642794279 12.49307888758714 10.48120665105718  
 Ag 8.40051129547318 12.53140849820908 12.46859150179093  
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 Ag 12.49307888758714 18.60930142794273 14.51879334894282  
 Ag 12.46859150179093 16.59946370452671 12.46859150179093  
 Ag 14.55036078461845 10.44966421538149 12.53491864875337  
 Ag 12.49307888758714 10.48123165105712 6.39072357205721  
 Ag 12.46508135124663 14.55033578461851 10.44963921538155  
 Ag 10.49662321518709 8.41866776859017 14.54705845716655  
 Ag 10.48120665105718 12.49307888758714 18.60927642794279  
 Ag 14.54705845716655 14.50335178481297 16.58130723140990  
 Ag 8.41866776859017 10.49662321518709 10.45294154283345  
 Ag 12.50694611241298 6.39069857205727 10.48120665105718  
 Ag 14.51879334894282 12.50692111241287 6.39072357205721  
 Ag 18.60927642794279 14.51876834894288 12.50692111241287  
 Ag 12.53143349820919 8.40053629547329 12.53140849820908  
 Ag 14.50337678481291 14.54703345716643 8.41866776859017  
 Ag 14.54705845716655 8.41866776859017 10.49662321518709  
 Pt 8.52968733034395 12.50000000000000 16.47028766965611  
 Pt 12.50000000000000 14.48790895258759 14.48793395258753  
 Pt 10.40423655431750 18.58549184583676 12.40743312985041

Pt	12.50000000000000	10.51209104741241	10.51209104741241
Pt	12.50000000000000	8.52971233034388	8.52971233034388
Pt	14.59576344568250	6.41450815416324	12.59254187014964
Pt	14.58765007162387	10.41237492837606	16.58257197692708
Pt	18.58546684583665	12.40743312985041	14.59576344568250
Pt	8.43377906548960	12.60174163834615	8.43377906548960
Pt	10.41234992837612	16.58259697692702	10.41237492837606
Pt	12.60176663834609	8.43380406548954	16.56619593451046
Pt	8.52968733034395	8.52971233034388	12.50000000000000
Pt	14.58765007162387	8.41740302307298	14.58765007162387
Pt	14.59576344568250	12.40743312985041	18.58549184583676
Pt	10.40423655431750	12.59256687014958	6.41453315416335
Pt	10.50401939655908	14.49595560344099	16.46994630491979
Pt	12.39825836165385	16.56619593451046	8.43377906548960
Pt	8.41740302307298	14.58762507162394	10.41237492837606
Pt	8.53005369508022	10.50404439655902	14.49598060344093
Pt	16.58259697692702	10.41237492837606	14.58765007162387
Pt	12.50000000000000	16.47028766965611	16.47028766965611
Pt	12.59256687014958	6.41450815416324	14.59576344568250
Pt	14.48793395258753	12.50000000000000	10.51209104741241
Pt	18.58546684583665	10.40423655431750	12.59254187014964
Pt	14.49598060344093	16.46994630491979	14.49598060344093
Pt	6.41453315416335	12.59256687014958	10.40423655431750
Pt	10.51206604741247	10.51209104741241	12.50000000000000
Pt	16.47028766965611	12.50000000000000	8.52971233034388
Pt	6.41453315416335	14.59576344568250	12.40743312985041
Pt	10.51206604741247	12.50000000000000	14.48793395258753
Pt	14.48793395258753	14.48790895258759	12.50000000000000
Pt	10.50401939655908	8.53005369508022	10.50401939655908
Pt	16.56622093451040	12.39825836165385	16.56619593451046
Pt	12.40745812985035	18.58549184583676	10.40423655431750
Pt	8.43377906548960	16.56619593451046	12.39823336165391
Pt	16.46994630491979	14.49595560344099	10.50401939655908
Pt	12.40745812985035	14.59576344568250	6.41453315416335
Pt	10.41234992837612	14.58762507162394	8.41740302307298
Pt	12.50000000000000	12.50000000000000	12.50000000000000
Pt	16.47028766965611	16.47028766965611	12.50000000000000
Pt	12.59256687014958	10.40423655431750	18.58549184583676
Pt	16.56622093451040	8.43380406548954	12.60174163834615
Pt	14.49598060344093	10.50404439655902	8.53005369508022

**Ag<sub>158</sub>Pt<sub>43</sub>LEH-643.158**

Ag	20.58764744391275	8.55246668122098	12.44401054320540
Ag	16.55656880678965	12.56942483862210	4.27910037727890
Ag	10.49461936605925	4.44863472086443	10.39411841970069
Ag	18.67968763743974	16.75923306876269	14.57430097055317
Ag	10.44794203479764	18.69130237204742	8.37223826998108
Ag	10.48409593352481	18.69702663219499	12.43159351562613
Ag	18.56582331620912	14.57936249248125	16.48554472828827
Ag	10.47263913260777	6.48865888470489	12.42182646940562
Ag	10.49238716909000	16.65340549965776	14.46146257245299
Ag	14.50866661760766	6.55436315581300	16.44929224093534
Ag	16.54561762205646	20.68127701647773	12.44272186099998
Ag	8.39806575024595	8.46818621032936	8.28685822922461
Ag	12.52802509794762	8.55496390052030	8.35054937017310
Ag	10.41493740968293	6.43788999017672	8.27006225601112
Ag	16.56503234590713	8.51523647259356	16.49704206929357
Ag	12.48827767676080	18.66693695462386	6.32483288055164
Ag	10.40378971410648	18.78244982796658	16.56443189659122
Ag	8.46759534629988	12.58026173952925	8.36532720478562
Ag	16.56446830154495	14.58985298854849	18.52008802095088
Ag	14.62589379359179	8.46337426241207	6.17498497148062

Ag 18.60056976438452 12.56136246490751 6.31233372935051  
 Ag 20.59661723929439 12.55122661589428 8.38140882463119  
 Ag 12.50504724012958 4.53511749639314 16.38866723678268  
 Ag 10.40173774464551 16.70495401654441 18.58892395443729  
 Ag 16.62069557289343 16.74278914581028 16.56477695522814  
 Ag 18.57085669423732 6.52385848755776 12.42619178078998  
 Ag 8.44760345324495 18.71256508716001 14.47996068667156  
 Ag 8.38839980862428 10.49608655349145 6.25033381550263  
 Ag 8.43096509263816 10.51001675587258 18.45986081617935  
 Ag 12.52350039544943 4.44390539128095 12.42838851379040  
 Ag 14.54491184980644 16.64949925085157 10.40898662684424  
 Ag 14.49078653974479 10.52749425454516 20.54563950589269  
 Ag 10.47625224352778 20.79546233224082 14.47090512565778  
 Ag 6.48359706889794 16.63628485544988 14.45822500686473  
 Ag 8.43416837762597 8.50221003785560 12.42607672148717  
 Ag 12.48499988236953 8.54166639801575 20.44687686995173  
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