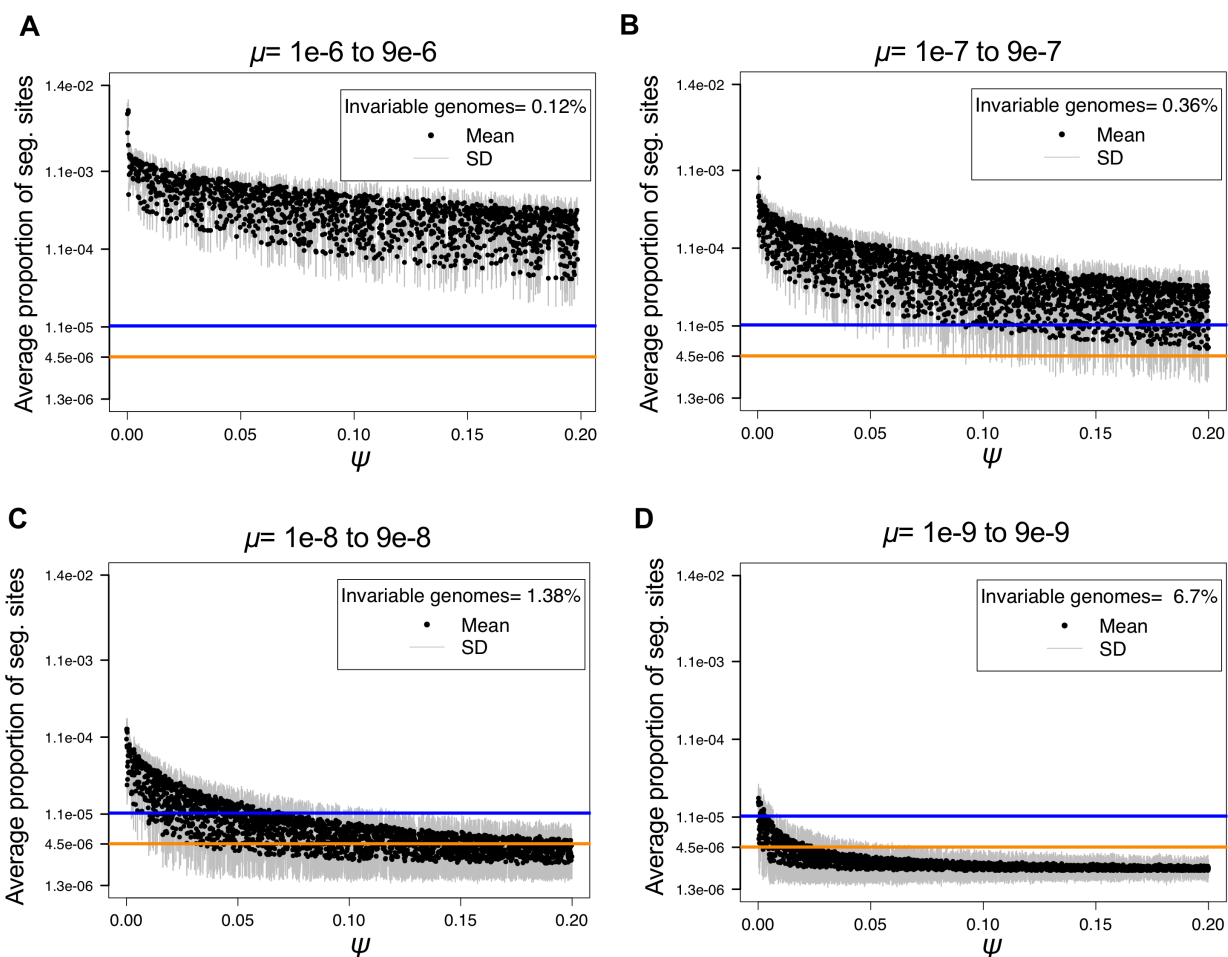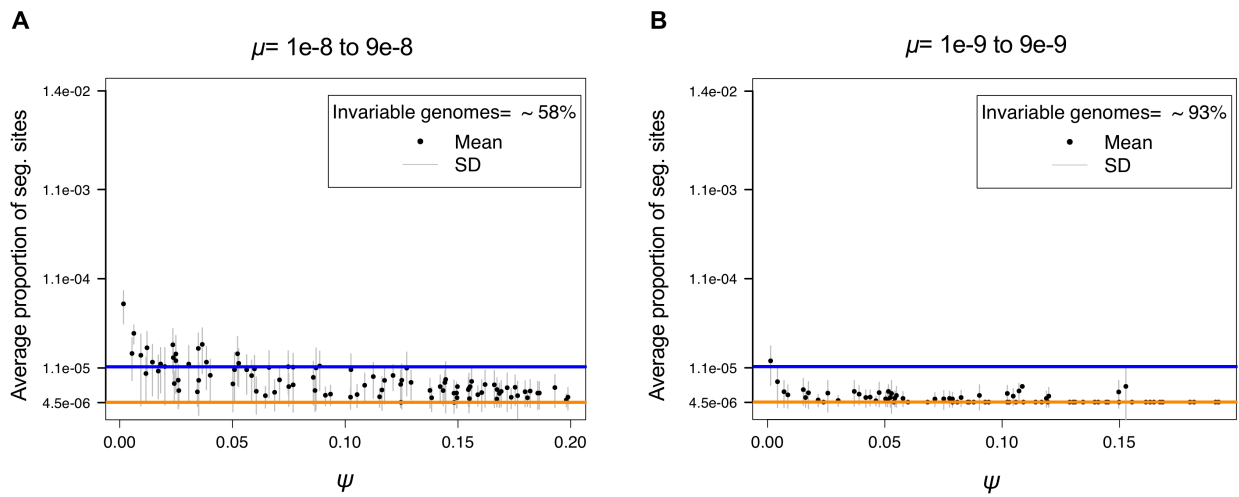2



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**Figure S1. Log scale distribution of segregating sites in unfiltered simulated populations as**

**a function of mutation rate ($\mu$) and progeny skew ($\Psi$).** For each parameter combination of $\mu$

and $\Psi$ drawn from the prior (10,000 in total), 1,000 replicates were simulated, with the mean

given by the black dot and the standard deviation given by the gray bars. $\Psi$ proportions are given

on the X-axis, while the proportion of segregating sites observed in the genome are given on the

Y-axis. Each panel corresponds to a different order of magnitude of mutation rate: (A) 1e-6 to

9e-6, (B) 1e-7 to 9e-7, (C) 1e-8 to 9e-8, and (D) 1e-9 to 9e-9. The colored lines correspond to

two examples of the proportion of segregating sites observed genome-wide in empirical patient

data: 20 segregating sites as a mean (orange) and 50 segregating sites as the maximum observed

from patient_10 (blue) (Trauner *et al.* 2017).

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**Figure S2. Log scale distribution of segregating sites in filtered simulated populations of $N$ = 25,000 as a function of mutation rate ($\mu$) and progeny skew ($\Psi$).** For each parameter combination of $\mu$ and $\Psi$ drawn from the prior (100 in total), 100 replicates were simulated, with the mean given by the black dot and the standard deviation given by the gray bars. $\Psi$ proportions are given on the X-axis, while the proportion of segregating sites observed in the genome are given on the Y-axis. Each panel corresponds to a different order of magnitude of mutation rate: (A) 1e-8 to 9e-8, and (B) 1e-9 to 9e-9. The colored lines correspond to two examples of the proportion of segregating sites observed genome-wide in empirical patient data: 20 segregating sites (orange) and 50 segregating sites (blue) (Trauner *et al.* 2017). As shown, inference remains consistent with the results of Figure 2, even under this 25x larger population size.

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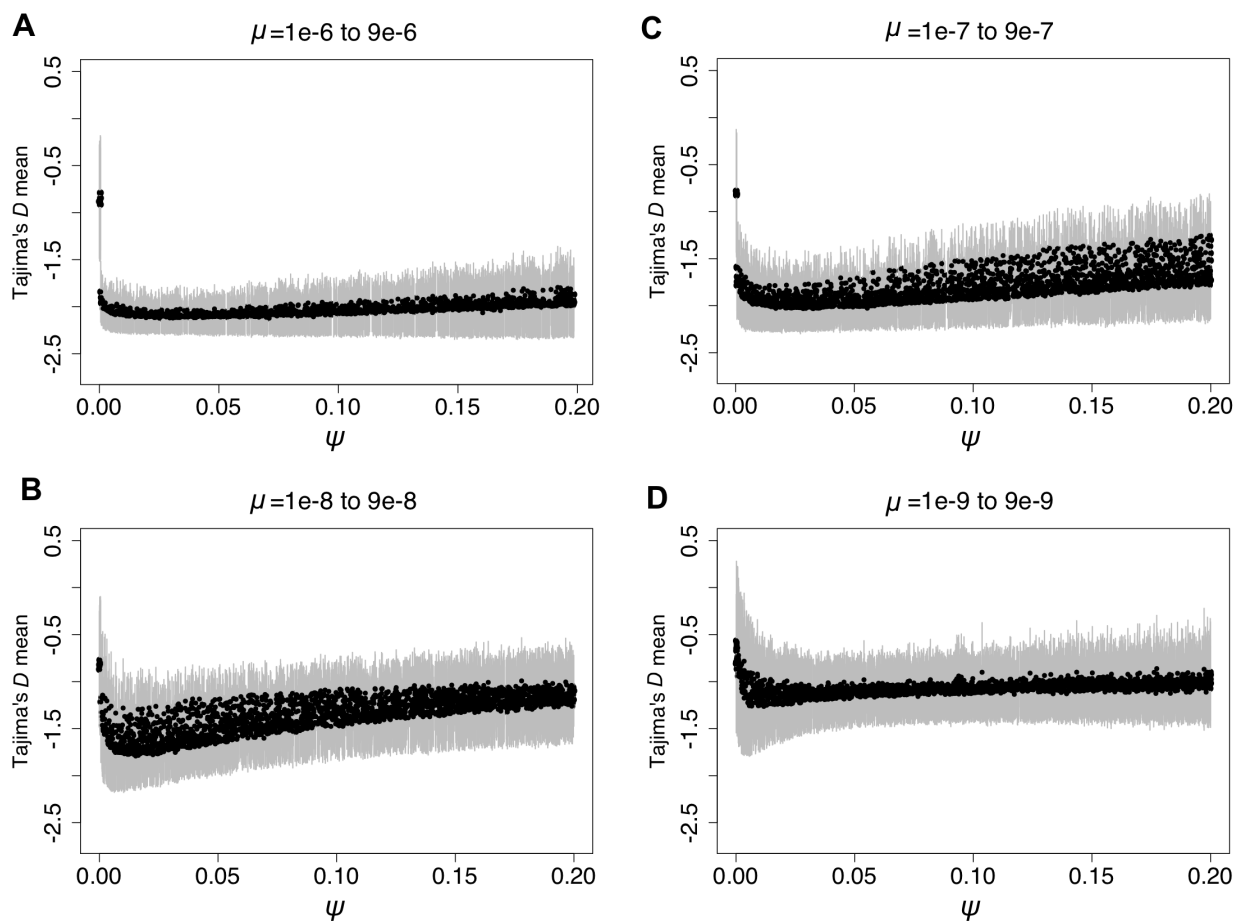
**Figure S3. The shape of the site frequency spectrum in unfiltered simulated populations, as summarized by Tajima's *D*, as a function of mutation rate (*μ*) and progeny skew (*Ψ*).** For each parameter combination of *μ* and *Ψ* drawn from the prior distributions (10,000 in total), 1,000 replicates were simulated, with the mean given by the black dot and the standard deviation given by the gray bars. *Ψ* proportions are given on the X-axis, while the mean Tajima's *D* is given on the Y-axis. Each panel corresponds to a different order of magnitude of mutation rate: (A) 1e-6 to 9e-6, (B) 1e-7 to 9e-7, (C) 1e-8 to 9e-8, and (D) 1e-9 to 9e-9. As shown, the distribution of variation expected to be observed in the genome differs as a function of these two parameters - with a strong excess of rare mutations (negative *D*) observed as the WF model is initially violated at small values of *Ψ*, with a slight recovery towards 0 (and larger standard deviations) observed as *Ψ* gets larger, owing to the rapidly decreasing number of segregating sites associated with increased progeny skew.

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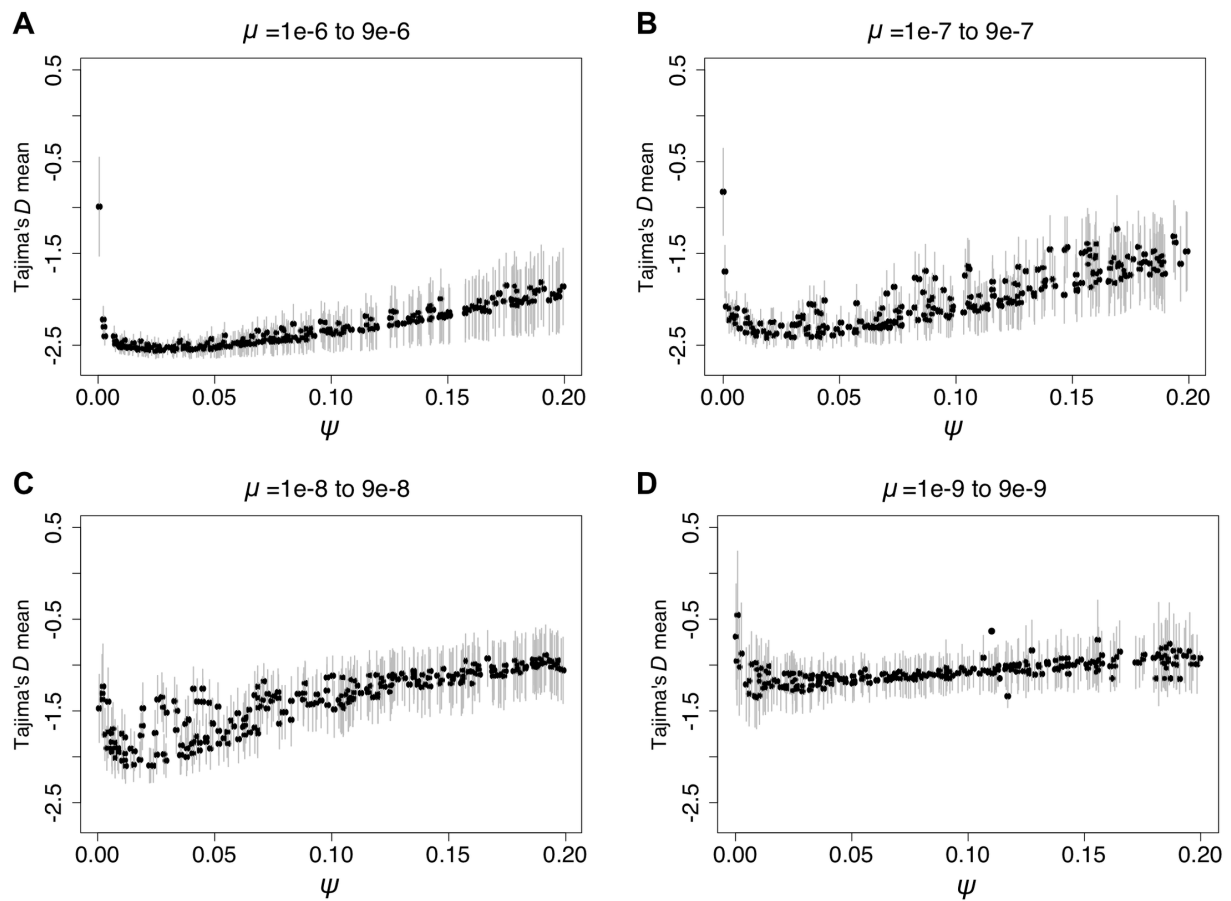
**Figure S4. The shape of the site frequency spectrum (SFS), as summarized by Tajima's *D*,**

**in simulated populations after filtering out segregating sites under 2% frequency, as a**

**function of mutation rate (*μ*) and progeny skew (*Ψ*)**. 1,000 parameters combinations were

used. For each parameter combination of *μ* and *Ψ* drawn from the prior distributions, 1,000

replicates were simulated, with the mean given by the black dot and the standard deviation given

by the gray bars. *Ψ* proportions are given on the X-axis, while the mean Tajima's *D* is given on

the Y-axis. Each panel corresponds to a different order of magnitude of mutation rate: (A) 1e-6

to 9e-6, (B) 1e-7 to 9e-7, (C) 1e-8 to 9e-8, and (D) 1e-9 to 9e-9. As shown, results remain largely

consistent pre- (Figure S3) and post-filtering.
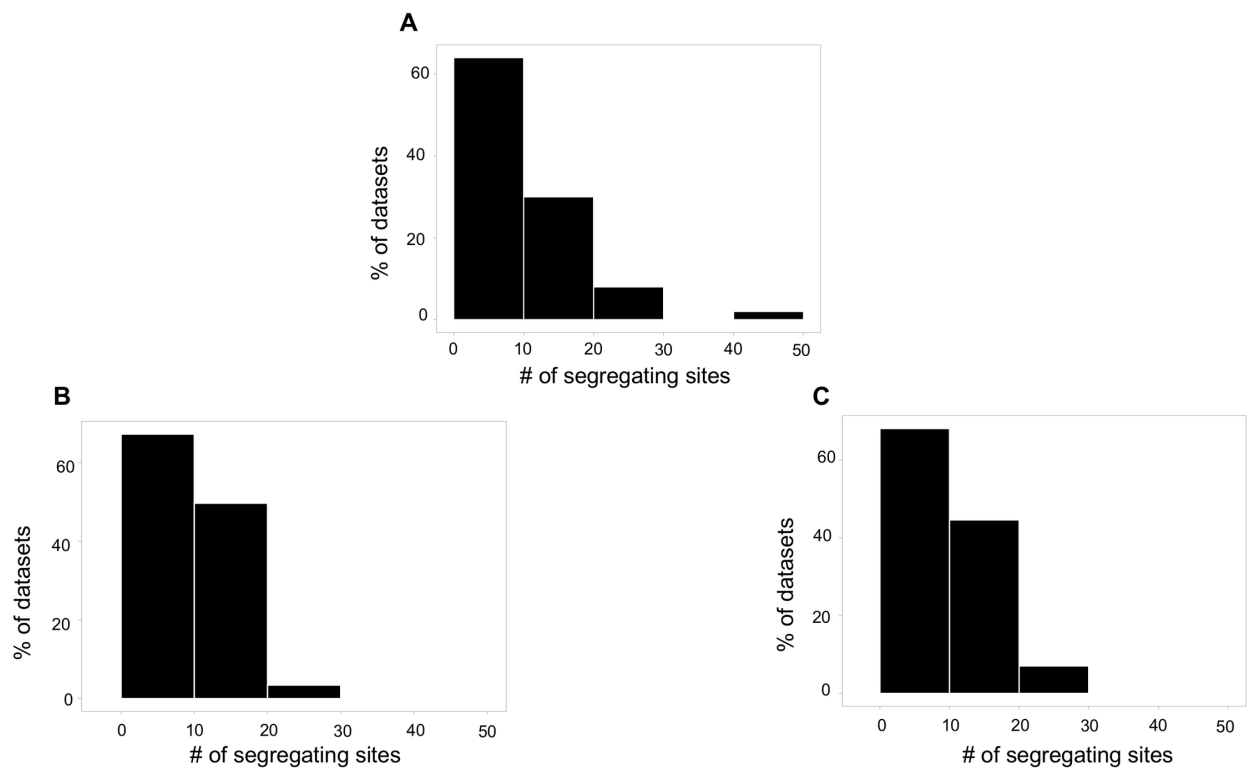
**Figure S5. The distribution of segregating sites in real versus simulated datasets.**

Comparison of the number of segregating sites observed from (A) patient samples (Trauner *et al.* 2017) , (B) simulated datasets with $\mu = 3.1\text{e-}8$ and $\Psi = 0.02$, resulting in the same mean number of segregating sites as observed in patients, and (C) simulated datasets with $\mu = 3.7\text{e-}7$ and $\Psi = 0.18$, also resulting in the same mean number of segregating sites as observed in patients. Thus, these two point estimates essentially demarcate the boundaries on the joint posterior ridge (Figure 3).

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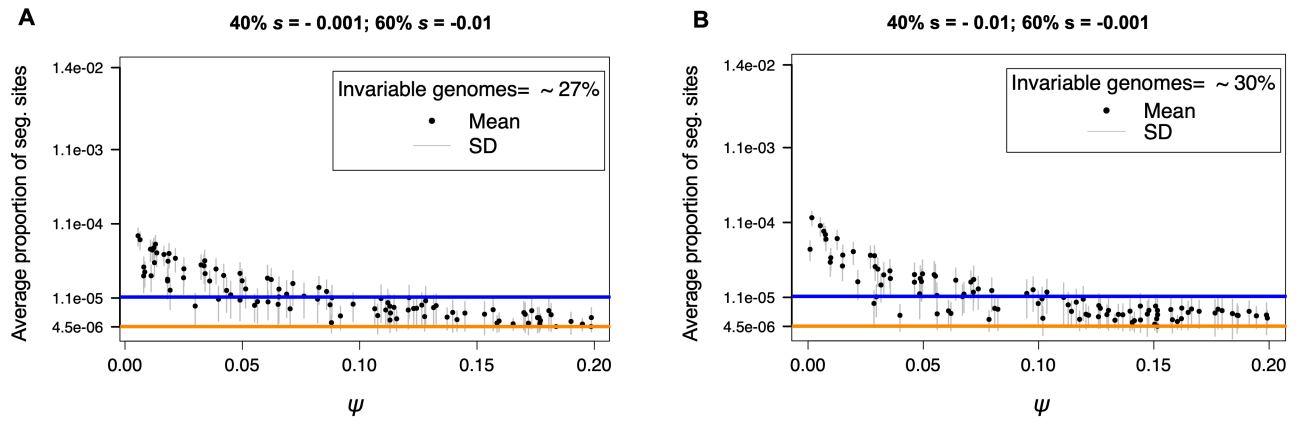
**Figure S6. Log scale distribution of segregating sites in filtered simulated populations of mutation rates ranging from 1e-8 to 9e-8, for two differing proportions of DFE density**. For comparison with Figure 2c, (A) presents a DFE comprised of 40% effectively neutral and 60% deleterious mutations, and (B) presents a DFE comprised of 40% deleterious and 60% effectively neutral mutations. As shown, owing to the strong impact of progeny skew combined with the large-scale background selection effects inherent to this non-recombining genome, the same parameter range remains supported under these alternative DFEs.

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89 **Table S1. Simulation results.** Parameters simulated, ordered by descending mutation rate ($\mu$)

90 and corresponding values of progeny skew ($\Psi$) and bottleneck severity (*N2*). Given are the mean

91 and standard deviation of the summary statistics from 1000 replicates.

| Parameters | | | Summary statistics | | | | |
|---|---|---|---|---|---|---|---|
| Mutation rate ($\mu$) | Progeny skew ($\psi$) | Bneck (*N2*) | Tajima's *D* mean | Tajima's *D* sd | Segregating sites mean | Segregating sites sd | % invariable genomes |
| 1.00E-06 | 0.08 | 30 | -2.27 | 0.21 | 73.25 | 27.92 | 0 |
| 1.05E-06 | 0.05 | 51 | -2.39 | 0.14 | 114.03 | 38.30 | 0 |
| 1.07E-06 | 0.07 | 79 | -2.34 | 0.15 | 62.12 | 22.01 | 0 |
| 1.15E-06 | 0.17 | 27 | -1.85 | 0.35 | 34.15 | 14.59 | 0 |
| 1.16E-06 | 0.08 | 55 | -2.31 | 0.19 | 87.86 | 32.73 | 0 |
| 1.16E-06 | 0.15 | 47 | -1.99 | 0.32 | 43.57 | 18.33 | 0 |
| 1.18E-06 | 0.10 | 50 | -2.24 | 0.22 | 74.73 | 27.22 | 0 |
| 1.22E-06 | 0.00 | 94 | -2.22 | 0.14 | 530.18 | 111.42 | 0 |
| 1.27E-06 | 0.04 | 98 | -2.45 | 0.11 | 184.69 | 55.99 | 0 |
| 1.34E-06 | 0.07 | 2 | -2.36 | 0.17 | 108.13 | 36.60 | 0 |
| 1.37E-06 | 0.19 | 88 | -1.81 | 0.41 | 36.05 | 15.12 | 0 |
| 1.37E-06 | 0.18 | 8 | -1.86 | 0.38 | 39.00 | 16.43 | 0 |
| 1.41E-06 | 0.02 | 36 | -2.46 | 0.11 | 299.34 | 81.76 | 0 |
| 1.42E-06 | 0.05 | 78 | -2.43 | 0.13 | 159.52 | 54.08 | 0 |
| 1.45E-06 | 0.13 | 76 | -2.13 | 0.28 | 65.43 | 24.44 | 0 |
| 1.50E-06 | 0.03 | 87 | -2.47 | 0.11 | 206.16 | 63.09 | 0 |
| 1.52E-06 | 0.14 | 57 | -2.07 | 0.30 | 58.53 | 21.69 | 0 |
| 1.52E-06 | 0.13 | 5 | -2.14 | 0.27 | 67.74 | 25.94 | 0 |
| 1.54E-06 | 0.10 | 10 | -2.25 | 0.21 | 91.62 | 33.44 | 0 |
| 1.56E-06 | 0.13 | 73 | -2.13 | 0.28 | 69.92 | 27.12 | 0 |
| 1.60E-06 | 0.00 | 89 | -2.30 | 0.12 | 581.91 | 125.90 | 0 |
| 1.61E-06 | 0.11 | 13 | -2.18 | 0.25 | 77.14 | 29.58 | 0 |
| 1.62E-06 | 0.19 | 44 | -1.87 | 0.39 | 43.92 | 18.62 | 0 |
| 1.70E-06 | 0.08 | 56 | -2.34 | 0.18 | 120.63 | 42.28 | 0 |
| 1.77E-06 | 0.18 | 27 | -1.91 | 0.37 | 48.59 | 21.04 | 0 |
| 1.80E-06 | 0.01 | 87 | -2.40 | 0.11 | 504.71 | 117.25 | 0 |
| 1.81E-06 | 0.07 | 45 | -2.40 | 0.15 | 150.83 | 51.46 | 0 |
| 1.81E-06 | 0.17 | 37 | -1.93 | 0.37 | 53.25 | 20.52 | 0 |
| 1.81E-06 | 0.09 | 31 | -2.32 | 0.18 | 115.12 | 41.23 | 0 |
| 1.82E-06 | 0.01 | 70 | -2.45 | 0.10 | 436.73 | 103.75 | 0 |
| 1.82E-06 | 0.17 | 48 | -1.94 | 0.36 | 54.58 | 21.79 | 0 |
| 1.87E-06 | 0.10 | 72 | -2.26 | 0.23 | 99.90 | 36.87 | 0 |
| 1.89E-06 | 0.07 | 30 | -2.41 | 0.16 | 156.59 | 51.49 | 0 |
| 1.91E-06 | 0.08 | 53 | -2.37 | 0.18 | 140.44 | 50.62 | 0 |
| 1.92E-06 | 0.09 | 14 | -2.32 | 0.21 | 119.20 | 41.99 | 0 |
| 1.98E-06 | 0.07 | 25 | -2.39 | 0.16 | 153.30 | 52.89 | 0 |
| 2.05E-06 | 0.06 | 89 | -2.43 | 0.14 | 173.69 | 56.74 | 0 |
| 2.10E-06 | 0.04 | 42 | -2.49 | 0.11 | 247.24 | 74.12 | 0 |
| 2.11E-06 | 0.17 | 57 | -1.98 | 0.33 | 48.27 | 17.98 | 30.6 |
| 2.13E-06 | 0.12 | 77 | -2.22 | 0.25 | 100.63 | 38.00 | 0 |
| 2.15E-06 | 0.14 | 51 | -2.11 | 0.27 | 58.14 | 22.20 | 0 |
| 2.18E-06 | 0.16 | 18 | -2.02 | 0.34 | 69.00 | 27.61 | 0 |
| 2.20E-06 | 0.02 | 8 | -2.48 | 0.09 | 427.76 | 106.33 | 0 |
| 2.20E-06 | 0.02 | 82 | -2.49 | 0.10 | 365.72 | 102.03 | 0 |
| 2.21E-06 | 0.19 | 28 | -1.90 | 0.40 | 57.49 | 23.35 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2.22E-06 | 0.09 | 42 | -2.34 | 0.19 | 139.26 | 49.72 | 0 |
| 2.24E-06 | 0.19 | 45 | -1.91 | 0.36 | 44.85 | 17.11 | 0 |
| 2.28E-06 | 0.13 | 5 | -2.20 | 0.24 | 98.00 | 36.41 | 0 |
| 2.28E-06 | 0.14 | 32 | -2.15 | 0.28 | 87.13 | 33.44 | 0 |
| 2.35E-06 | 0.05 | 44 | -2.48 | 0.12 | 236.37 | 73.31 | 0 |
| 2.52E-06 | 0.19 | 83 | -1.89 | 0.41 | 63.42 | 26.09 | 0 |
| 2.61E-06 | 0.02 | 67 | -2.50 | 0.09 | 385.13 | 108.51 | 0 |
| 2.66E-06 | 0.14 | 59 | -2.11 | 0.31 | 96.28 | 36.99 | 0 |
| 2.71E-06 | 0.20 | 66 | -1.86 | 0.42 | 64.02 | 25.96 | 0 |
| 2.73E-06 | 0.03 | 80 | -2.51 | 0.09 | 376.28 | 107.57 | 0 |
| 2.87E-06 | 0.03 | 3 | -2.52 | 0.08 | 166.65 | 52.69 | 0 |
| 2.87E-06 | 0.14 | 34 | -2.13 | 0.30 | 104.75 | 38.78 | 0 |
| 2.93E-06 | 0.05 | 47 | -2.47 | 0.13 | 251.39 | 82.08 | 0 |
| 2.94E-06 | 0.10 | 12 | -2.34 | 0.18 | 157.71 | 54.81 | 0 |
| 3.01E-06 | 0.08 | 52 | -2.39 | 0.17 | 187.60 | 66.33 | 0 |
| 3.02E-06 | 0.13 | 3 | -2.18 | 0.28 | 114.74 | 40.91 | 0 |
| 3.02E-06 | 0.04 | 31 | -2.51 | 0.10 | 325.83 | 102.62 | 0 |
| 3.03E-06 | 0.10 | 97 | -2.32 | 0.21 | 160.46 | 57.38 | 0 |
| 3.05E-06 | 0.18 | 20 | -2.00 | 0.35 | 82.89 | 33.44 | 0 |
| 3.09E-06 | 0.17 | 47 | -2.04 | 0.32 | 64.38 | 25.71 | 52.6 |
| 3.11E-06 | 0.07 | 68 | -2.42 | 0.16 | 208.45 | 73.55 | 0 |
| 3.15E-06 | 0.11 | 97 | -2.30 | 0.22 | 150.87 | 55.35 | 0 |
| 3.16E-06 | 0.06 | 50 | -2.47 | 0.13 | 246.51 | 82.19 | 0 |
| 3.19E-06 | 0.19 | 95 | -1.93 | 0.40 | 80.04 | 32.79 | 0 |
| 3.20E-06 | 0.16 | 67 | -2.08 | 0.32 | 98.94 | 36.62 | 0 |
| 3.21E-06 | 0.20 | 97 | -1.90 | 0.41 | 73.48 | 30.10 | 0 |
| 3.24E-06 | 0.10 | 82 | -2.33 | 0.20 | 171.88 | 60.99 | 0 |
| 3.24E-06 | 0.03 | 5 | -2.51 | 0.10 | 371.41 | 114.00 | 0 |
| 3.24E-06 | 0.11 | 45 | -2.30 | 0.23 | 155.65 | 57.23 | 0 |
| 3.25E-06 | 0.01 | 81 | -2.47 | 0.09 | 615.46 | 144.49 | 0 |
| 3.34E-06 | 0.09 | 69 | -2.36 | 0.18 | 188.15 | 66.35 | 0 |
| 3.38E-06 | 0.08 | 10 | -2.42 | 0.16 | 223.29 | 76.95 | 0 |
| 3.38E-06 | 0.18 | 17 | -1.99 | 0.32 | 62.81 | 24.34 | 56.8 |
| 3.44E-06 | 0.05 | 29 | -2.50 | 0.11 | 143.29 | 48.38 | 60.2 |
| 3.51E-06 | 0.09 | 30 | -2.36 | 0.19 | 191.03 | 66.20 | 0 |
| 3.63E-06 | 0.17 | 62 | -2.02 | 0.38 | 98.79 | 38.19 | 0 |
| 3.64E-06 | 0.02 | 17 | -2.52 | 0.09 | 491.72 | 134.79 | 0 |
| 3.72E-06 | 0.01 | 35 | -2.46 | 0.09 | 751.52 | 171.61 | 0 |
| 3.73E-06 | 0.07 | 16 | -2.44 | 0.14 | 246.58 | 84.59 | 0 |
| 3.76E-06 | 0.13 | 45 | -2.21 | 0.26 | 139.56 | 51.31 | 0 |
| 3.77E-06 | 0.02 | 52 | -2.53 | 0.08 | 479.20 | 133.02 | 0 |
| 3.78E-06 | 0.06 | 18 | -2.48 | 0.13 | 283.14 | 92.52 | 0 |
| 3.81E-06 | 0.06 | 31 | -2.46 | 0.13 | 271.95 | 91.58 | 0 |
| 3.81E-06 | 0.04 | 47 | -2.50 | 0.11 | 345.88 | 108.22 | 0 |
| 3.85E-06 | 0.05 | 89 | -2.51 | 0.10 | 162.16 | 51.37 | 0 |
| 3.89E-06 | 0.16 | 50 | -2.10 | 0.32 | 117.26 | 45.18 | 0 |
| 3.92E-06 | 0.11 | 66 | -2.33 | 0.22 | 183.75 | 65.43 | 0 |
| 3.93E-06 | 0.10 | 22 | -2.35 | 0.20 | 197.81 | 70.32 | 0 |
| 4.06E-06 | 0.08 | 27 | -2.40 | 0.17 | 231.15 | 77.99 | 0 |
| 4.07E-06 | 0.05 | 99 | -2.50 | 0.11 | 320.98 | 100.88 | 0 |
| 4.09E-06 | 0.16 | 39 | -2.08 | 0.34 | 119.81 | 46.43 | 0 |
| 4.11E-06 | 0.15 | 97 | -2.16 | 0.29 | 136.81 | 51.00 | 0 |

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|---|---|---|---|---|---|---|---|
| 4.13E-06 | 0.07 | 91 | -2.45 | 0.14 | 261.73 | 88.21 | 0 |
| 4.13E-06 | 0.18 | 72 | -2.01 | 0.38 | 104.37 | 41.08 | 0 |
| 4.14E-06 | 0.18 | 25 | -1.98 | 0.39 | 105.10 | 42.01 | 0 |
| 4.19E-06 | 0.12 | 91 | -2.28 | 0.23 | 177.23 | 61.32 | 0 |
| 4.22E-06 | 0.06 | 74 | -2.47 | 0.13 | 283.84 | 93.60 | 0 |
| 4.23E-06 | 0.04 | 24 | -2.51 | 0.11 | 365.05 | 116.15 | 0 |
| 4.27E-06 | 0.06 | 61 | -2.47 | 0.14 | 292.16 | 96.34 | 0 |
| 4.27E-06 | 0.06 | 56 | -2.48 | 0.13 | 310.77 | 98.59 | 0 |
| 4.27E-06 | 0.05 | 70 | -2.50 | 0.12 | 341.95 | 109.99 | 0 |
| 4.28E-06 | 0.08 | 85 | -2.41 | 0.17 | 245.99 | 82.80 | 0 |
| 4.33E-06 | 0.18 | 16 | -2.00 | 0.35 | 73.08 | 28.78 | 0 |
| 4.34E-06 | 0.09 | 85 | -2.39 | 0.16 | 126.78 | 44.33 | 0 |
| 4.35E-06 | 0.03 | 16 | -2.53 | 0.09 | 441.81 | 130.87 | 0 |
| 4.39E-06 | 0.17 | 1 | -2.04 | 0.36 | 121.47 | 47.98 | 0 |
| 4.40E-06 | 0.18 | 97 | -2.02 | 0.34 | 112.82 | 44.80 | 0 |
| 4.44E-06 | 0.01 | 39 | -2.49 | 0.09 | 763.84 | 181.69 | 0 |
| 4.46E-06 | 0.06 | 45 | -2.48 | 0.11 | 152.56 | 51.75 | 68.1 |
| 4.66E-06 | 0.16 | 2 | -2.10 | 0.32 | 88.53 | 32.16 | 0 |
| 4.68E-06 | 0.15 | 36 | -2.17 | 0.30 | 148.64 | 55.85 | 0 |
| 4.69E-06 | 0.16 | 5 | -2.12 | 0.32 | 135.54 | 51.72 | 0 |
| 4.69E-06 | 0.18 | 68 | -2.01 | 0.38 | 119.29 | 47.69 | 0 |
| 4.77E-06 | 0.14 | 66 | -2.20 | 0.28 | 163.71 | 60.01 | 0 |
| 4.83E-06 | 0.10 | 54 | -2.36 | 0.20 | 226.20 | 78.89 | 0 |
| 4.90E-06 | 0.07 | 36 | -2.46 | 0.14 | 309.92 | 98.60 | 0 |
| 4.93E-06 | 0.04 | 45 | -2.53 | 0.09 | 437.73 | 134.20 | 0 |
| 4.96E-06 | 0.19 | 66 | -1.94 | 0.41 | 111.01 | 45.52 | 0 |
| 5.00E-06 | 0.08 | 81 | -2.42 | 0.16 | 271.63 | 90.25 | 0 |
| 5.04E-06 | 0.01 | 41 | -2.50 | 0.08 | 765.12 | 187.52 | 0 |
| 5.08E-06 | 0.09 | 67 | -2.40 | 0.17 | 137.78 | 50.38 | 0 |
| 5.19E-06 | 0.08 | 51 | -2.42 | 0.16 | 279.02 | 94.16 | 0 |
| 5.19E-06 | 0.18 | 13 | -2.01 | 0.37 | 131.71 | 50.46 | 0 |
| 5.29E-06 | 0.16 | 5 | -2.11 | 0.31 | 151.00 | 57.19 | 0 |
| 5.34E-06 | 0.04 | 70 | -2.54 | 0.09 | 466.30 | 140.97 | 0 |
| 5.35E-06 | 0.03 | 79 | -2.54 | 0.09 | 502.51 | 146.17 | 0 |
| 5.35E-06 | 0.07 | 73 | -2.45 | 0.14 | 307.53 | 98.73 | 0 |
| 5.37E-06 | 0.07 | 98 | -2.46 | 0.14 | 318.07 | 106.42 | 0 |
| 5.39E-06 | 0.15 | 61 | -2.17 | 0.29 | 164.10 | 58.77 | 0 |
| 5.43E-06 | 0.03 | 76 | -2.54 | 0.09 | 490.96 | 145.83 | 0 |
| 5.46E-06 | 0.15 | 94 | -2.14 | 0.30 | 163.69 | 61.69 | 0 |
| 5.50E-06 | 0.01 | 73 | -2.51 | 0.08 | 745.90 | 194.38 | 0 |
| 5.51E-06 | 0.15 | 41 | -2.18 | 0.28 | 171.60 | 64.52 | 0 |
| 5.52E-06 | 0.02 | 8 | -2.53 | 0.09 | 680.68 | 183.99 | 0 |
| 5.60E-06 | 0.08 | 68 | -2.42 | 0.16 | 302.27 | 106.08 | 0 |
| 5.61E-06 | 0.04 | 66 | -2.53 | 0.10 | 457.64 | 145.37 | 0 |
| 5.63E-06 | 0.13 | 5 | -2.23 | 0.25 | 187.17 | 68.44 | 0 |
| 5.64E-06 | 0.17 | 49 | -2.09 | 0.34 | 154.34 | 57.48 | 0 |
| 5.64E-06 | 0.20 | 52 | -1.95 | 0.41 | 120.54 | 47.31 | 0 |
| 5.67E-06 | 0.01 | 37 | -2.53 | 0.08 | 731.89 | 186.88 | 0 |
| 5.77E-06 | 0.04 | 20 | -2.53 | 0.10 | 475.95 | 151.07 | 11.6 |
| 5.80E-06 | 0.10 | 31 | -2.35 | 0.22 | 252.06 | 87.42 | 0 |
| 5.82E-06 | 0.02 | 41 | -2.54 | 0.08 | 670.96 | 187.64 | 0 |
| 5.87E-06 | 0.12 | 42 | -2.29 | 0.25 | 224.90 | 80.55 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5.88E-06 | 0.01 | 12 | -2.53 | 0.07 | 354.52 | 90.49 | 0 |
| 5.92E-06 | 0.11 | 8 | -2.33 | 0.22 | 245.33 | 89.74 | 0 |
| 5.95E-06 | 0.16 | 88 | -2.09 | 0.34 | 159.67 | 63.38 | 0 |
| 5.96E-06 | 0.09 | 18 | -2.42 | 0.16 | 153.28 | 55.05 | 0 |
| 6.00E-06 | 0.18 | 30 | -2.04 | 0.36 | 144.43 | 55.87 | 0 |
| 6.02E-06 | 0.18 | 55 | -2.06 | 0.33 | 147.44 | 57.72 | 0 |
| 6.05E-06 | 0.00 | 32 | -2.40 | 0.10 | 1198.87 | 255.71 | 0 |
| 6.08E-06 | 0.02 | 1 | -2.54 | 0.08 | 681.49 | 179.41 | 0 |
| 6.14E-06 | 0.06 | 55 | -2.49 | 0.13 | 383.21 | 129.85 | 0 |
| 6.22E-06 | 0.04 | 2 | -2.53 | 0.10 | 474.70 | 147.92 | 0 |
| 6.22E-06 | 0.05 | 68 | -2.52 | 0.11 | 422.11 | 136.96 | 0 |
| 6.28E-06 | 0.05 | 58 | -2.53 | 0.10 | 449.10 | 145.23 | 0 |
| 6.29E-06 | 0.08 | 44 | -2.43 | 0.16 | 321.52 | 106.13 | 0 |
| 6.33E-06 | 0.19 | 51 | -2.01 | 0.38 | 138.23 | 54.61 | 0 |
| 6.34E-06 | 0.03 | 71 | -2.55 | 0.08 | 581.88 | 172.53 | 0 |
| 6.35E-06 | 0.09 | 32 | -2.40 | 0.18 | 295.07 | 100.32 | 0 |
| 6.37E-06 | 0.14 | 50 | -2.20 | 0.27 | 120.96 | 46.29 | 0 |
| 6.39E-06 | 0.00 | 97 | -0.99 | 0.54 | 4711.72 | 1154.14 | 0 |
| 6.43E-06 | 0.05 | 75 | -2.52 | 0.11 | 442.70 | 142.79 | 0 |
| 6.43E-06 | 0.06 | 7 | -2.49 | 0.13 | 390.06 | 130.05 | 0 |
| 6.46E-06 | 0.04 | 19 | -2.54 | 0.09 | 511.88 | 159.56 | 0 |
| 6.51E-06 | 0.06 | 79 | -2.49 | 0.12 | 389.01 | 123.46 | 0 |
| 6.52E-06 | 0.18 | 95 | -2.05 | 0.35 | 158.22 | 61.29 | 0 |
| 6.62E-06 | 0.01 | 49 | -2.53 | 0.08 | 840.51 | 207.17 | 0 |
| 6.68E-06 | 0.03 | 41 | -2.55 | 0.08 | 643.11 | 184.41 | 0 |
| 6.71E-06 | 0.18 | 81 | -2.03 | 0.36 | 157.08 | 59.45 | 0 |
| 6.74E-06 | 0.01 | 72 | -2.53 | 0.08 | 870.14 | 224.09 | 0 |
| 6.78E-06 | 0.04 | 80 | -2.54 | 0.09 | 497.06 | 147.93 | 0 |
| 6.78E-06 | 0.18 | 47 | -2.04 | 0.35 | 163.30 | 62.91 | 0 |
| 6.81E-06 | 0.15 | 21 | -2.19 | 0.28 | 122.69 | 45.58 | 0 |
| 6.83E-06 | 0.06 | 59 | -2.51 | 0.11 | 422.41 | 134.05 | 0 |
| 6.84E-06 | 0.08 | 49 | -2.44 | 0.16 | 350.26 | 118.35 | 0 |
| 6.84E-06 | 0.03 | 15 | -2.56 | 0.08 | 644.69 | 193.02 | 0 |
| 6.87E-06 | 0.09 | 47 | -2.42 | 0.18 | 320.62 | 104.46 | 0 |
| 6.91E-06 | 0.01 | 75 | -2.49 | 0.08 | 1048.33 | 239.36 | 0 |
| 6.95E-06 | 0.19 | 78 | -2.02 | 0.35 | 157.65 | 60.19 | 0 |
| 6.98E-06 | 0.15 | 8 | -2.17 | 0.30 | 201.86 | 76.86 | 0 |
| 7.01E-06 | 0.12 | 99 | -2.32 | 0.22 | 260.33 | 92.97 | 0 |
| 7.02E-06 | 0.06 | 68 | -2.50 | 0.13 | 408.59 | 129.63 | 0 |
| 7.04E-06 | 0.08 | 49 | -2.46 | 0.14 | 369.08 | 124.33 | 0 |
| 7.04E-06 | 0.02 | 27 | -2.55 | 0.07 | 739.16 | 201.87 | 0 |
| 7.08E-06 | 0.10 | 11 | -2.37 | 0.20 | 298.49 | 106.80 | 0 |
| 7.17E-06 | 0.16 | 34 | -2.11 | 0.32 | 189.62 | 73.83 | 0 |
| 7.17E-06 | 0.18 | 30 | -2.06 | 0.33 | 112.16 | 39.13 | 80.6 |
| 7.18E-06 | 0.14 | 21 | -2.23 | 0.27 | 230.21 | 79.97 | 0 |
| 7.19E-06 | 0.05 | 58 | -2.53 | 0.11 | 474.91 | 150.53 | 0 |
| 7.21E-06 | 0.13 | 41 | -2.26 | 0.24 | 238.43 | 84.13 | 0 |
| 7.22E-06 | 0.15 | 89 | -2.18 | 0.30 | 210.57 | 80.26 | 0 |
| 7.22E-06 | 0.07 | 27 | -2.49 | 0.14 | 395.22 | 131.00 | 0 |
| 7.29E-06 | 0.05 | 28 | -2.51 | 0.12 | 447.44 | 148.29 | 0 |
| 7.35E-06 | 0.05 | 34 | -2.53 | 0.11 | 494.59 | 158.04 | 0 |
| 7.37E-06 | 0.05 | 95 | -2.52 | 0.11 | 472.23 | 147.74 | 0 |

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|---|---|---|---|---|---|---|---|
| 7.39E-06 | 0.05 | 44 | -2.54 | 0.09 | 222.21 | 75.67 | 0 |
| 7.39E-06 | 0.14 | 65 | -2.22 | 0.27 | 228.38 | 82.60 | 0 |
| 7.41E-06 | 0.08 | 26 | -2.45 | 0.16 | 350.58 | 127.48 | 0 |
| 7.42E-06 | 0.14 | 4 | -2.23 | 0.28 | 232.20 | 84.06 | 0 |
| 7.50E-06 | 0.07 | 53 | -2.47 | 0.14 | 380.47 | 126.84 | 0.5 |
| 7.52E-06 | 0.14 | 72 | -2.25 | 0.26 | 236.18 | 86.08 | 0 |
| 7.60E-06 | 0.04 | 92 | -2.55 | 0.09 | 549.20 | 174.91 | 0 |
| 7.60E-06 | 0.20 | 56 | -1.97 | 0.39 | 160.59 | 61.63 | 0 |
| 7.64E-06 | 0.08 | 79 | -2.46 | 0.16 | 386.46 | 132.39 | 0 |
| 7.69E-06 | 0.09 | 71 | -2.45 | 0.14 | 179.42 | 63.82 | 0 |
| 7.73E-06 | 0.08 | 79 | -2.45 | 0.15 | 376.58 | 127.84 | 0 |
| 7.77E-06 | 0.20 | 63 | -1.98 | 0.39 | 164.70 | 63.21 | 0 |
| 7.80E-06 | 0.01 | 63 | -2.52 | 0.08 | 966.52 | 235.75 | 0 |
| 7.87E-06 | 0.18 | 71 | -2.07 | 0.34 | 181.52 | 69.42 | 0 |
| 7.88E-06 | 0.08 | 35 | -2.45 | 0.15 | 383.83 | 133.02 | 0 |
| 7.89E-06 | 0.17 | 59 | -2.12 | 0.32 | 201.40 | 75.09 | 0 |
| 7.92E-06 | 0.07 | 93 | -2.49 | 0.13 | 418.80 | 138.74 | 0 |
| 7.98E-06 | 0.06 | 13 | -2.51 | 0.12 | 451.14 | 146.23 | 1.1 |
| 7.99E-06 | 0.09 | 53 | -2.44 | 0.15 | 179.84 | 65.68 | 0 |
| 7.99E-06 | 0.05 | 97 | -2.53 | 0.11 | 495.40 | 155.93 | 0 |
| 8.00E-06 | 0.05 | 89 | -2.53 | 0.10 | 497.63 | 154.43 | 0 |
| 8.00E-06 | 0.13 | 83 | -2.28 | 0.25 | 268.95 | 96.31 | 0 |
| 8.00E-06 | 0.12 | 55 | -2.32 | 0.23 | 288.98 | 97.70 | 0 |
| 8.01E-06 | 0.15 | 87 | -2.20 | 0.28 | 136.62 | 48.86 | 0 |
| 8.12E-06 | 0.17 | 87 | -2.13 | 0.32 | 124.24 | 46.65 | 0 |
| 8.13E-06 | 0.02 | 75 | -2.55 | 0.08 | 773.33 | 207.64 | 0 |
| 8.17E-06 | 0.13 | 80 | -2.28 | 0.24 | 276.99 | 96.62 | 10.1 |
| 8.27E-06 | 0.07 | 45 | -2.46 | 0.15 | 413.27 | 143.77 | 0 |
| 8.30E-06 | 0.02 | 88 | -2.57 | 0.08 | 719.67 | 211.75 | 0 |
| 8.31E-06 | 0.10 | 65 | -2.36 | 0.20 | 321.74 | 112.56 | 0 |
| 8.44E-06 | 0.19 | 80 | -2.02 | 0.38 | 188.77 | 72.47 | 0 |
| 8.46E-06 | 0.10 | 5 | -2.38 | 0.20 | 335.76 | 113.24 | 0 |
| 8.47E-06 | 0.17 | 75 | -2.13 | 0.32 | 216.68 | 83.37 | 0 |
| 8.47E-06 | 0.03 | 37 | -2.56 | 0.08 | 653.55 | 201.75 | 0 |
| 8.49E-06 | 0.05 | 70 | -2.53 | 0.11 | 511.33 | 168.06 | 0 |
| 8.50E-06 | 0.01 | 93 | -2.52 | 0.08 | 996.00 | 253.67 | 0 |
| 8.50E-06 | 0.16 | 58 | -2.15 | 0.31 | 224.71 | 82.46 | 0 |
| 8.59E-06 | 0.12 | 2 | -2.31 | 0.23 | 301.44 | 110.81 | 0 |
| 8.64E-06 | 0.11 | 34 | -2.33 | 0.23 | 313.45 | 111.52 | 0 |
| 8.64E-06 | 0.13 | 19 | -2.26 | 0.26 | 281.85 | 100.78 | 0 |
| 8.73E-06 | 0.13 | 41 | -2.25 | 0.28 | 270.21 | 100.76 | 0 |
| 8.73E-06 | 0.02 | 22 | -2.55 | 0.08 | 785.93 | 223.02 | 0 |
| 8.74E-06 | 0.02 | 80 | -2.55 | 0.08 | 864.54 | 242.73 | 0 |
| 8.78E-06 | 0.12 | 1 | -2.32 | 0.24 | 310.70 | 109.17 | 0 |
| 8.79E-06 | 0.10 | 78 | -2.38 | 0.19 | 335.42 | 119.68 | 0 |
| 8.81E-06 | 0.01 | 97 | -2.52 | 0.08 | 1085.27 | 272.37 | 0 |
| 8.81E-06 | 0.04 | 79 | -2.56 | 0.09 | 612.42 | 203.42 | 0 |
| 8.84E-06 | 0.11 | 88 | -2.34 | 0.21 | 319.74 | 108.26 | 0 |
| 8.89E-06 | 0.05 | 8 | -2.54 | 0.10 | 560.69 | 173.71 | 3.9 |
| 1.01E-07 | 0.04 | 42 | -2.05 | 0.20 | 21.65 | 8.30 | 0 |
| 1.07E-07 | 0.04 | 60 | -2.01 | 0.21 | 19.40 | 7.61 | 0.1 |
| 1.11E-07 | 0.04 | 4 | -2.06 | 0.20 | 22.62 | 8.50 | 0 |

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|---|---|---|---|---|---|---|---|
| 1.16E-07 | 0.09 | 96 | -1.69 | 0.29 | 9.42 | 4.34 | 1.6 |
| 1.31E-07 | 0.08 | 26 | -1.77 | 0.28 | 11.30 | 5.27 | 0.5 |
| 1.32E-07 | 0.17 | 32 | -1.24 | 0.37 | 4.79 | 2.41 | 11.7 |
| 1.32E-07 | 0.07 | 70 | -1.87 | 0.25 | 13.38 | 5.78 | 0.4 |
| 1.32E-07 | 0.01 | 77 | -2.13 | 0.19 | 76.43 | 19.25 | 0 |
| 1.35E-07 | 0.00 | 77 | -1.70 | 0.28 | 136.12 | 30.23 | 0 |
| 1.39E-07 | 0.08 | 44 | -1.78 | 0.27 | 11.88 | 5.49 | 0.5 |
| 1.43E-07 | 0.11 | 85 | -1.64 | 0.30 | 9.36 | 4.62 | 1 |
| 1.46E-07 | 0.04 | 17 | -2.14 | 0.18 | 28.42 | 10.39 | 0 |
| 1.48E-07 | 0.01 | 78 | -2.10 | 0.18 | 98.16 | 24.08 | 0 |
| 1.51E-07 | 0.11 | 79 | -1.67 | 0.31 | 9.77 | 4.55 | 1.6 |
| 1.54E-07 | 0.03 | 71 | -2.18 | 0.17 | 34.49 | 11.81 | 0 |
| 1.55E-07 | 0.03 | 97 | -2.19 | 0.17 | 37.51 | 12.53 | 0 |
| 1.57E-07 | 0.06 | 13 | -2.04 | 0.20 | 20.97 | 8.10 | 0 |
| 1.59E-07 | 0.09 | 65 | -1.77 | 0.28 | 12.21 | 5.73 | 0.6 |
| 1.59E-07 | 0.14 | 9 | -1.46 | 0.37 | 7.03 | 3.52 | 3.2 |
| 1.61E-07 | 0.07 | 69 | -1.94 | 0.25 | 17.01 | 7.29 | 0.2 |
| 1.62E-07 | 0.15 | 83 | -1.43 | 0.33 | 6.72 | 3.29 | 3.8 |
| 1.65E-07 | 0.03 | 59 | -2.20 | 0.16 | 37.41 | 12.51 | 0 |
| 1.65E-07 | 0.04 | 29 | -2.15 | 0.19 | 30.24 | 10.84 | 0 |
| 1.67E-07 | 0.04 | 83 | -2.16 | 0.17 | 30.33 | 11.01 | 0 |
| 1.72E-07 | 0.16 | 69 | -1.40 | 0.35 | 6.41 | 3.22 | 7.8 |
| 1.75E-07 | 0.10 | 12 | -1.74 | 0.29 | 11.68 | 5.48 | 0.9 |
| 1.82E-07 | 0.15 | 88 | -1.46 | 0.36 | 7.62 | 3.76 | 3.5 |
| 1.83E-07 | 0.02 | 23 | -2.25 | 0.15 | 60.75 | 17.80 | 0 |
| 1.89E-07 | 0.16 | 48 | -1.39 | 0.38 | 7.01 | 3.69 | 4.2 |
| 1.90E-07 | 0.02 | 89 | -2.25 | 0.16 | 59.16 | 17.48 | 0 |
| 1.92E-07 | 0.01 | 30 | -2.20 | 0.17 | 97.79 | 24.93 | 0 |
| 1.94E-07 | 0.02 | 51 | -2.25 | 0.16 | 63.04 | 18.30 | 0 |
| 2.03E-07 | 0.16 | 34 | -1.46 | 0.38 | 7.92 | 4.09 | 4.1 |
| 2.19E-07 | 0.09 | 74 | -1.92 | 0.26 | 17.61 | 7.36 | 0.1 |
| 2.19E-07 | 0.03 | 27 | -2.26 | 0.15 | 49.27 | 15.76 | 0 |
| 2.20E-07 | 0.15 | 77 | -1.50 | 0.37 | 8.62 | 4.15 | 2.4 |
| 2.22E-07 | 0.13 | 43 | -1.65 | 0.32 | 10.79 | 5.21 | 1.2 |
| 2.25E-07 | 0.16 | 48 | -1.48 | 0.37 | 8.40 | 4.35 | 2.2 |
| 2.30E-07 | 0.03 | 71 | -2.27 | 0.14 | 55.34 | 18.13 | 0 |
| 2.31E-07 | 0.02 | 84 | -2.26 | 0.15 | 84.82 | 22.91 | 0 |
| 2.43E-07 | 0.09 | 40 | -1.90 | 0.27 | 17.18 | 7.41 | 0.2 |
| 2.45E-07 | 0.02 | 43 | -2.29 | 0.15 | 68.26 | 21.02 | 0 |
| 2.45E-07 | 0.03 | 11 | -2.28 | 0.15 | 58.57 | 18.40 | 0 |
| 2.49E-07 | 0.16 | 73 | -1.53 | 0.35 | 9.23 | 4.56 | 1.5 |
| 2.52E-07 | 0.19 | 21 | -1.31 | 0.39 | 7.11 | 3.59 | 4.9 |
| 2.54E-07 | 0.03 | 69 | -2.28 | 0.15 | 56.09 | 18.23 | 0 |
| 2.55E-07 | 0.12 | 62 | -1.81 | 0.28 | 14.55 | 6.53 | 0.6 |
| 2.56E-07 | 0.07 | 46 | -2.10 | 0.22 | 27.86 | 11.28 | 0 |
| 2.57E-07 | 0.13 | 61 | -1.69 | 0.34 | 12.39 | 5.89 | 0.5 |
| 2.61E-07 | 0.13 | 90 | -1.68 | 0.33 | 11.81 | 5.58 | 0.9 |
| 2.65E-07 | 0.16 | 68 | -1.52 | 0.36 | 9.35 | 4.47 | 1.6 |
| 2.67E-07 | 0.14 | 27 | -1.66 | 0.34 | 11.62 | 5.64 | 0.6 |
| 2.67E-07 | 0.18 | 26 | -1.43 | 0.39 | 8.27 | 4.15 | 2.7 |
| 2.68E-07 | 0.01 | 22 | -2.26 | 0.15 | 115.42 | 29.13 | 0 |
| 2.77E-07 | 0.09 | 84 | -1.98 | 0.26 | 21.28 | 8.64 | 0 |

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|---|---|---|---|---|---|---|---|
| 2.85E-07 | 0.16 | 67 | -1.55 | 0.36 | 10.25 | 4.91 | 1.2 |
| 2.87E-07 | 0.08 | 35 | -2.08 | 0.22 | 27.15 | 10.97 | 0 |
| 2.96E-07 | 0.01 | 61 | -2.26 | 0.15 | 135.23 | 32.52 | 0 |
| 2.99E-07 | 0.12 | 44 | -1.80 | 0.32 | 15.65 | 6.95 | 0.3 |
| 3.00E-07 | 0.19 | 2 | -1.38 | 0.40 | 8.14 | 4.11 | 3.3 |
| 3.03E-07 | 0.09 | 68 | -2.00 | 0.24 | 23.60 | 9.76 | 0 |
| 3.21E-07 | 0.09 | 72 | -2.02 | 0.26 | 24.71 | 10.18 | 0 |
| 3.23E-07 | 0.10 | 25 | -1.99 | 0.24 | 22.58 | 9.42 | 0 |
| 3.26E-07 | 0.04 | 14 | -2.30 | 0.15 | 62.74 | 21.18 | 0 |
| 3.28E-07 | 0.01 | 41 | -2.18 | 0.17 | 186.83 | 40.77 | 0 |
| 3.29E-07 | 0.05 | 60 | -2.25 | 0.18 | 46.38 | 16.37 | 0 |
| 3.30E-07 | 0.07 | 28 | -2.16 | 0.19 | 34.59 | 12.94 | 0 |
| 3.30E-07 | 0.16 | 89 | -1.62 | 0.36 | 11.95 | 5.82 | 0.6 |
| 3.36E-07 | 0.17 | 54 | -1.55 | 0.38 | 10.81 | 5.15 | 1 |
| 3.41E-07 | 0.17 | 52 | -1.53 | 0.38 | 10.72 | 5.29 | 1.1 |
| 3.43E-07 | 0.08 | 83 | -2.09 | 0.22 | 28.74 | 11.31 | 0 |
| 3.43E-07 | 0.07 | 8 | -2.12 | 0.23 | 32.72 | 12.81 | 0 |
| 3.45E-07 | 0.04 | 49 | -2.29 | 0.16 | 56.22 | 19.10 | 0 |
| 3.59E-07 | 0.08 | 28 | -2.13 | 0.21 | 33.10 | 13.05 | 0 |
| 3.60E-07 | 0.13 | 99 | -1.83 | 0.31 | 17.94 | 7.85 | 0.3 |
| 3.61E-07 | 0.17 | 96 | -1.60 | 0.37 | 12.29 | 5.89 | 0.8 |
| 3.62E-07 | 0.12 | 19 | -1.89 | 0.30 | 19.73 | 8.83 | 0.1 |
| 3.68E-07 | 0.09 | 67 | -2.07 | 0.23 | 28.56 | 10.96 | 0 |
| 3.71E-07 | 0.18 | 47 | -1.51 | 0.41 | 11.19 | 5.70 | 1.1 |
| 3.72E-07 | 0.19 | 53 | -1.47 | 0.40 | 10.56 | 5.38 | 1.2 |
| 3.76E-07 | 0.06 | 60 | -2.24 | 0.18 | 45.73 | 16.16 | 0 |
| 3.79E-07 | 0.13 | 27 | -1.84 | 0.30 | 18.51 | 7.94 | 0 |
| 3.82E-07 | 0.01 | 55 | -2.31 | 0.15 | 143.20 | 36.64 | 0 |
| 3.82E-07 | 0.18 | 87 | -1.48 | 0.43 | 10.89 | 5.42 | 1 |
| 3.85E-07 | 0.04 | 80 | -2.33 | 0.15 | 72.52 | 22.82 | 0 |
| 3.85E-07 | 0.18 | 53 | -1.56 | 0.38 | 11.71 | 5.72 | 0.9 |
| 3.87E-07 | 0.11 | 46 | -1.97 | 0.26 | 23.65 | 9.97 | 0 |
| 3.89E-07 | 0.08 | 58 | -2.15 | 0.21 | 33.83 | 13.19 | 0 |
| 3.89E-07 | 0.04 | 64 | -2.31 | 0.15 | 61.69 | 20.86 | 0 |
| 3.91E-07 | 0.06 | 96 | -2.24 | 0.17 | 47.06 | 17.70 | 0 |
| 3.91E-07 | 0.14 | 90 | -1.79 | 0.33 | 17.18 | 7.31 | 0.2 |
| 3.93E-07 | 0.00 | 82 | -2.17 | 0.16 | 224.21 | 47.82 | 0 |
| 3.93E-07 | 0.04 | 66 | -2.31 | 0.16 | 66.36 | 21.62 | 0 |
| 4.03E-07 | 0.17 | 3 | -1.60 | 0.38 | 13.05 | 6.59 | 0.7 |
| 4.12E-07 | 0.07 | 87 | -2.22 | 0.19 | 43.55 | 16.05 | 0 |
| 4.15E-07 | 0.11 | 25 | -1.96 | 0.27 | 23.90 | 10.10 | 0 |
| 4.18E-07 | 0.17 | 9 | -1.63 | 0.36 | 13.54 | 6.41 | 0.7 |
| 4.21E-07 | 0.09 | 33 | -2.10 | 0.22 | 31.44 | 12.46 | 0 |
| 4.25E-07 | 0.14 | 64 | -1.81 | 0.32 | 18.34 | 8.11 | 0.2 |
| 4.26E-07 | 0.17 | 10 | -1.66 | 0.37 | 14.63 | 6.94 | 0.2 |
| 4.28E-07 | 0.16 | 54 | -1.70 | 0.35 | 15.61 | 7.12 | 0.2 |
| 4.30E-07 | 0.14 | 3 | -1.78 | 0.33 | 17.60 | 7.78 | 0.4 |
| 4.34E-07 | 0.19 | 70 | -1.52 | 0.41 | 11.96 | 5.74 | 0.8 |
| 4.42E-07 | 0.02 | 89 | -2.35 | 0.13 | 136.15 | 36.57 | 0 |
| 4.45E-07 | 0.17 | 8 | -1.64 | 0.35 | 14.18 | 6.56 | 0.4 |
| 4.48E-07 | 0.00 | 91 | -2.21 | 0.16 | 231.58 | 51.25 | 0 |
| 4.53E-07 | 0.19 | 46 | -1.55 | 0.39 | 12.63 | 6.18 | 0.2 |

| 4.56E-07 | 0.18 | 36 | -1.59 | 0.40 | 13.18 | 6.00 | 0.4 |
|----------|------|----|-------|------|--------|--------|-----|
| 4.56E-07 | 0.20 | 72 | -1.48 | 0.42 | 11.67 | 5.78 | 0.7 |
| 4.57E-07 | 0.15 | 43 | -1.73 | 0.38 | 17.01 | 7.85 | 0.1 |
| 4.57E-07 | 0.19 | 27 | -1.53 | 0.42 | 12.70 | 6.33 | 0.5 |
| 4.59E-07 | 0.12 | 48 | -1.96 | 0.28 | 25.57 | 10.35 | 0.1 |
| 4.60E-07 | 0.05 | 73 | -2.30 | 0.15 | 59.54 | 20.64 | 0 |
| 4.65E-07 | 0.12 | 28 | -1.96 | 0.29 | 25.40 | 10.54 | 0.2 |
| 4.67E-07 | 0.16 | 85 | -1.70 | 0.38 | 16.03 | 7.39 | 0.2 |
| 4.72E-07 | 0.11 | 61 | -2.04 | 0.26 | 29.02 | 11.77 | 0 |
| 4.74E-07 | 0.01 | 99 | -2.34 | 0.13 | 167.56 | 42.68 | 0 |
| 4.74E-07 | 0.08 | 41 | -2.20 | 0.18 | 41.64 | 15.27 | 0 |
| 4.77E-07 | 0.00 | 80 | -0.83 | 0.47 | 627.40 | 139.04 | 0 |
| 4.79E-07 | 0.18 | 19 | -1.61 | 0.41 | 14.59 | 6.72 | 0.4 |
| 4.81E-07 | 0.16 | 58 | -1.72 | 0.35 | 16.68 | 7.84 | 0.1 |
| 4.85E-07 | 0.14 | 4 | -1.86 | 0.32 | 20.86 | 9.24 | 0.1 |
| 4.85E-07 | 0.18 | 55 | -1.61 | 0.37 | 14.39 | 6.84 | 0.6 |
| 4.86E-07 | 0.13 | 12 | -1.88 | 0.31 | 22.10 | 9.20 | 0 |
| 4.86E-07 | 0.02 | 3 | -2.37 | 0.13 | 123.78 | 35.02 | 0 |
| 4.87E-07 | 0.02 | 26 | -2.37 | 0.12 | 134.03 | 38.08 | 0 |
| 4.90E-07 | 0.10 | 81 | -2.08 | 0.22 | 31.12 | 12.53 | 0 |
| 4.93E-07 | 0.20 | 51 | -1.48 | 0.43 | 12.19 | 5.88 | 0.7 |
| 4.94E-07 | 0.05 | 3 | -2.33 | 0.15 | 69.62 | 24.17 | 0 |
| 4.99E-07 | 0.16 | 85 | -1.72 | 0.37 | 17.81 | 7.74 | 0.4 |
| 5.07E-07 | 0.13 | 74 | -1.93 | 0.28 | 23.85 | 9.99 | 0 |
| 5.09E-07 | 0.17 | 94 | -1.68 | 0.38 | 16.55 | 7.63 | 0.3 |
| 5.10E-07 | 0.00 | 36 | -2.10 | 0.16 | 305.53 | 62.92 | 0 |
| 5.11E-07 | 0.19 | 84 | -1.58 | 0.40 | 14.20 | 6.91 | 0.2 |
| 5.12E-07 | 0.01 | 75 | -2.35 | 0.13 | 167.38 | 43.15 | 0 |
| 5.23E-07 | 0.03 | 39 | -2.38 | 0.13 | 113.43 | 32.95 | 0 |
| 5.27E-07 | 0.02 | 53 | -2.37 | 0.13 | 147.88 | 39.69 | 0 |
| 5.30E-07 | 0.09 | 47 | -2.17 | 0.21 | 41.69 | 15.81 | 0 |
| 5.31E-07 | 0.09 | 63 | -2.12 | 0.24 | 37.31 | 14.98 | 0 |
| 5.41E-07 | 0.14 | 61 | -1.85 | 0.32 | 22.44 | 9.40 | 0 |
| 5.41E-07 | 0.10 | 61 | -2.12 | 0.22 | 36.47 | 13.98 | 0 |
| 5.45E-07 | 0.07 | 56 | -2.24 | 0.19 | 50.27 | 18.60 | 0 |
| 5.46E-07 | 0.09 | 94 | -2.16 | 0.21 | 40.23 | 14.84 | 0 |
| 5.47E-07 | 0.19 | 83 | -1.59 | 0.40 | 15.04 | 6.95 | 0.4 |
| 5.51E-07 | 0.09 | 87 | -2.13 | 0.23 | 38.96 | 15.11 | 0 |
| 5.56E-07 | 0.04 | 79 | -2.36 | 0.14 | 87.06 | 28.92 | 0 |
| 5.63E-07 | 0.13 | 1 | -1.94 | 0.30 | 26.14 | 10.81 | 0.1 |
| 5.64E-07 | 0.06 | 41 | -2.29 | 0.18 | 61.10 | 21.67 | 0 |
| 5.68E-07 | 0.07 | 64 | -2.24 | 0.18 | 50.63 | 18.87 | 0 |
| 5.74E-07 | 0.04 | 51 | -2.38 | 0.13 | 100.51 | 31.60 | 0 |
| 5.76E-07 | 0.09 | 69 | -2.14 | 0.23 | 40.19 | 15.82 | 0 |
| 5.78E-07 | 0.14 | 1 | -1.89 | 0.32 | 25.21 | 10.54 | 0.1 |
| 5.83E-07 | 0.12 | 71 | -2.01 | 0.28 | 30.95 | 12.68 | 0 |
| 5.86E-07 | 0.04 | 28 | -2.37 | 0.14 | 91.26 | 29.74 | 0 |
| 5.88E-07 | 0.07 | 30 | -2.27 | 0.17 | 56.32 | 20.37 | 0 |
| 5.89E-07 | 0.15 | 81 | -1.84 | 0.32 | 22.29 | 9.45 | 0.1 |
| 5.90E-07 | 0.12 | 5 | -1.99 | 0.29 | 29.80 | 11.78 | 0 |
| 5.92E-07 | 0.01 | 89 | -2.37 | 0.13 | 195.29 | 48.74 | 0 |
| 5.98E-07 | 0.06 | 26 | -2.30 | 0.16 | 64.28 | 22.73 | 0 |

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|---|---|---|---|---|---|---|---|
| 6.08E-07 | 0.06 | 3 | -2.29 | 0.17 | 63.58 | 23.30 | 0 |
| 6.10E-07 | 0.19 | 45 | -1.63 | 0.42 | 16.91 | 7.97 | 0.1 |
| 6.11E-07 | 0.13 | 28 | -1.93 | 0.30 | 27.21 | 11.16 | 0 |
| 6.23E-07 | 0.16 | 63 | -1.79 | 0.36 | 21.64 | 9.41 | 0.1 |
| 6.26E-07 | 0.11 | 85 | -2.09 | 0.26 | 37.70 | 15.07 | 0 |
| 6.27E-07 | 0.02 | 56 | -2.39 | 0.12 | 150.37 | 41.96 | 0 |
| 6.29E-07 | 0.07 | 90 | -2.27 | 0.18 | 59.78 | 21.29 | 0 |
| 6.32E-07 | 0.11 | 39 | -2.07 | 0.27 | 37.18 | 14.75 | 0.1 |
| 6.33E-07 | 0.13 | 23 | -1.97 | 0.29 | 29.78 | 12.50 | 0 |
| 6.34E-07 | 0.18 | 73 | -1.67 | 0.39 | 18.63 | 8.13 | 0.2 |
| 6.35E-07 | 0.15 | 35 | -1.82 | 0.37 | 23.32 | 10.26 | 0 |
| 6.41E-07 | 0.00 | 72 | -2.20 | 0.16 | 332.26 | 69.47 | 0 |
| 6.46E-07 | 0.19 | 30 | -1.67 | 0.39 | 18.02 | 8.14 | 0 |
| 6.49E-07 | 0.07 | 98 | -2.26 | 0.19 | 57.55 | 21.17 | 0 |
| 6.49E-07 | 0.01 | 31 | -2.26 | 0.13 | 298.54 | 65.21 | 0 |
| 6.50E-07 | 0.11 | 43 | -2.06 | 0.25 | 35.37 | 14.24 | 0 |
| 6.52E-07 | 0.06 | 14 | -2.31 | 0.17 | 68.58 | 24.41 | 0 |
| 6.54E-07 | 0.17 | 5 | -1.74 | 0.36 | 19.97 | 9.10 | 0.2 |
| 6.56E-07 | 0.07 | 43 | -2.31 | 0.16 | 66.06 | 22.60 | 0 |
| 6.56E-07 | 0.12 | 71 | -2.01 | 0.26 | 32.09 | 13.00 | 0.1 |
| 6.57E-07 | 0.06 | 57 | -2.33 | 0.16 | 74.95 | 26.48 | 0 |
| 6.64E-07 | 0.03 | 8 | -2.40 | 0.13 | 137.28 | 40.18 | 0 |
| 6.74E-07 | 0.07 | 19 | -2.28 | 0.18 | 64.36 | 22.75 | 0 |
| 6.75E-07 | 0.20 | 43 | -1.61 | 0.41 | 17.39 | 8.31 | 0.3 |
| 6.79E-07 | 0.17 | 2 | -1.74 | 0.39 | 20.58 | 8.97 | 0.1 |
| 6.90E-07 | 0.07 | 72 | -2.30 | 0.19 | 68.62 | 24.49 | 0 |
| 6.93E-07 | 0.17 | 87 | -1.73 | 0.41 | 21.27 | 9.37 | 0 |
| 7.00E-07 | 0.11 | 13 | -2.07 | 0.26 | 38.49 | 15.41 | 0 |
| 7.09E-07 | 0.16 | 6 | -1.82 | 0.37 | 24.06 | 10.77 | 0 |
| 7.16E-07 | 0.17 | 83 | -1.80 | 0.35 | 23.48 | 10.47 | 0.2 |
| 7.18E-07 | 0.17 | 12 | -1.75 | 0.37 | 22.84 | 10.03 | 0 |
| 7.23E-07 | 0.04 | 20 | -2.40 | 0.13 | 109.44 | 35.41 | 0 |
| 7.24E-07 | 0.03 | 10 | -2.41 | 0.12 | 139.25 | 40.94 | 0 |
| 7.27E-07 | 0.07 | 65 | -2.31 | 0.17 | 68.65 | 24.56 | 0 |
| 7.29E-07 | 0.17 | 21 | -1.78 | 0.35 | 22.90 | 10.19 | 0 |
| 7.33E-07 | 0.03 | 27 | -2.41 | 0.12 | 140.51 | 41.50 | 0 |
| 7.35E-07 | 0.11 | 57 | -2.13 | 0.26 | 42.37 | 16.46 | 0 |
| 7.38E-07 | 0.06 | 81 | -2.31 | 0.17 | 74.78 | 26.44 | 0 |
| 7.38E-07 | 0.09 | 88 | -2.22 | 0.21 | 53.99 | 20.50 | 0 |
| 7.40E-07 | 0.01 | 86 | -2.32 | 0.13 | 287.85 | 66.02 | 0 |
| 7.44E-07 | 0.11 | 35 | -2.09 | 0.26 | 40.74 | 16.46 | 0 |
| 7.45E-07 | 0.17 | 98 | -1.77 | 0.39 | 23.36 | 9.91 | 0.1 |
| 7.46E-07 | 0.13 | 95 | -1.96 | 0.31 | 32.63 | 13.66 | 0 |
| 7.46E-07 | 0.11 | 49 | -2.09 | 0.27 | 40.62 | 16.06 | 0 |
| 7.49E-07 | 0.19 | 11 | -1.69 | 0.40 | 20.67 | 9.04 | 0 |
| 7.55E-07 | 0.05 | 12 | -2.37 | 0.14 | 94.98 | 31.32 | 0 |
| 7.57E-07 | 0.08 | 5 | -2.23 | 0.21 | 58.18 | 21.59 | 0 |
| 7.58E-07 | 0.12 | 99 | -2.05 | 0.27 | 37.43 | 14.96 | 0 |
| 7.66E-07 | 0.10 | 9 | -2.14 | 0.24 | 46.15 | 17.97 | 0 |
| 7.67E-07 | 0.12 | 44 | -2.04 | 0.30 | 38.22 | 15.98 | 0 |
| 7.70E-07 | 0.12 | 50 | -2.02 | 0.29 | 36.47 | 14.27 | 0 |
| 7.73E-07 | 0.11 | 56 | -2.12 | 0.27 | 43.72 | 16.66 | 0 |

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|---|---|---|---|---|---|---|---|
| 7.74E-07 | 0.12 | 5 | -2.04 | 0.28 | 37.34 | 14.82 | 0 |
| 7.79E-07 | 0.16 | 88 | -1.87 | 0.32 | 27.21 | 11.85 | 0 |
| 7.81E-07 | 0.11 | 88 | -2.10 | 0.24 | 42.25 | 17.24 | 0 |
| 7.84E-07 | 0.07 | 8 | -2.30 | 0.17 | 70.64 | 25.09 | 0 |
| 7.87E-07 | 0.19 | 60 | -1.69 | 0.42 | 21.37 | 9.60 | 0.1 |
| 7.89E-07 | 0.12 | 87 | -2.07 | 0.27 | 40.55 | 16.41 | 0 |
| 7.92E-07 | 0.17 | 3 | -1.81 | 0.37 | 26.10 | 11.60 | 0 |
| 7.92E-07 | 0.01 | 64 | -2.36 | 0.12 | 263.73 | 62.04 | 0 |
| 7.95E-07 | 0.06 | 65 | -2.36 | 0.15 | 88.33 | 30.44 | 0 |
| 8.02E-07 | 0.12 | 93 | -2.07 | 0.28 | 40.49 | 16.40 | 0 |
| 8.04E-07 | 0.04 | 27 | -2.41 | 0.13 | 124.75 | 38.87 | 0 |
| 8.04E-07 | 0.13 | 96 | -2.04 | 0.29 | 37.67 | 15.00 | 0 |
| 8.12E-07 | 0.06 | 47 | -2.36 | 0.16 | 90.97 | 30.83 | 0 |
| 8.24E-07 | 0.05 | 17 | -2.39 | 0.14 | 110.28 | 34.90 | 0 |
| 8.24E-07 | 0.13 | 38 | -2.05 | 0.28 | 38.65 | 15.02 | 0 |
| 8.26E-07 | 0.12 | 1 | -2.07 | 0.27 | 41.91 | 16.18 | 0 |
| 8.32E-07 | 0.15 | 42 | -1.95 | 0.31 | 32.59 | 14.11 | 0 |
| 8.34E-07 | 0.10 | 78 | -2.20 | 0.21 | 54.37 | 20.77 | 0 |
| 8.38E-07 | 0.00 | 68 | -2.23 | 0.14 | 390.48 | 83.65 | 0 |
| 8.43E-07 | 0.13 | 62 | -2.04 | 0.29 | 38.44 | 15.94 | 0 |
| 8.43E-07 | 0.00 | 32 | -2.08 | 0.16 | 458.90 | 98.30 | 0 |
| 8.43E-07 | 0.10 | 61 | -2.17 | 0.23 | 53.82 | 20.21 | 0 |
| 8.44E-07 | 0.07 | 6 | -2.32 | 0.18 | 78.95 | 28.20 | 0 |
| 8.46E-07 | 0.10 | 25 | -2.18 | 0.23 | 54.74 | 21.13 | 0 |
| 8.46E-07 | 0.18 | 6 | -1.73 | 0.38 | 24.15 | 10.74 | 0.1 |
| 8.47E-07 | 0.09 | 4 | -2.22 | 0.22 | 59.83 | 22.29 | 0 |
| 8.48E-07 | 0.11 | 53 | -2.12 | 0.25 | 48.35 | 18.70 | 0 |
| 8.51E-07 | 0.15 | 37 | -1.89 | 0.34 | 31.51 | 13.81 | 0 |
| 8.58E-07 | 0.04 | 27 | -2.41 | 0.14 | 122.95 | 37.93 | 0 |
| 8.60E-07 | 0.08 | 11 | -2.29 | 0.18 | 70.69 | 24.50 | 0 |
| 8.63E-07 | 0.02 | 82 | -2.42 | 0.12 | 209.87 | 57.67 | 0 |
| 8.68E-07 | 0.01 | 43 | -2.40 | 0.12 | 242.48 | 59.70 | 0 |
| 8.73E-07 | 0.15 | 57 | -1.91 | 0.33 | 32.32 | 13.70 | 0 |
| 8.79E-07 | 0.19 | 20 | -1.73 | 0.39 | 23.62 | 10.47 | 0.1 |
| 8.91E-07 | 0.08 | 30 | -2.28 | 0.20 | 72.92 | 26.50 | 0 |
| 8.93E-07 | 0.19 | 94 | -1.72 | 0.43 | 23.83 | 10.85 | 0 |
| 8.95E-07 | 0.09 | 77 | -2.23 | 0.21 | 61.75 | 23.18 | 0 |
| 8.95E-07 | 0.17 | 30 | -1.82 | 0.35 | 28.80 | 12.22 | 0.1 |
| 8.95E-07 | 0.07 | 69 | -2.31 | 0.17 | 79.72 | 27.37 | 0 |
| 1.03E-08 | 0.17 | 95 | -0.93 | 0.30 | 2.10 | 0.30 | 95.8 |
| 1.07E-08 | 0.04 | 48 | -1.26 | 0.24 | 3.20 | 1.43 | 40.5 |
| 1.09E-08 | 0.04 | 80 | -1.26 | 0.21 | 3.11 | 1.24 | 46 |
| 1.10E-08 | 0.03 | 44 | -1.35 | 0.26 | 4.16 | 2.01 | 16.8 |
| 1.11E-08 | 0.19 | 62 | -0.99 | 0.33 | 2.14 | 0.41 | 95.6 |
| 1.13E-08 | 0.07 | 54 | -1.18 | 0.19 | 2.51 | 0.79 | 62.6 |
| 1.14E-08 | 0.10 | 67 | -1.12 | 0.21 | 2.38 | 0.68 | 79.8 |
| 1.18E-08 | 0.19 | 97 | -0.94 | 0.28 | 2.06 | 0.23 | 94.6 |
| 1.20E-08 | 0.03 | 80 | -1.37 | 0.26 | 4.50 | 2.09 | 12.7 |
| 1.32E-08 | 0.02 | 75 | -1.47 | 0.28 | 6.06 | 2.83 | 3 |
| 1.38E-08 | 0.19 | 45 | -0.89 | 0.33 | 2.23 | 0.59 | 93.9 |
| 1.38E-08 | 0.00 | 93 | -1.23 | 0.46 | 19.67 | 6.08 | 0 |
| 1.38E-08 | 0.00 | 55 | -1.40 | 0.37 | 15.67 | 5.11 | 0 |

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|---|---|---|---|---|---|---|---|
| 1.39E-08 | 0.10 | 45 | -1.14 | 0.22 | 2.53 | 0.73 | 73.8 |
| 1.42E-08 | 0.16 | 94 | -0.96 | 0.29 | 2.20 | 0.45 | 89.5 |
| 1.49E-08 | 0.03 | 3 | -1.39 | 0.26 | 4.39 | 2.13 | 13.4 |
| 1.50E-08 | 0.17 | 35 | -1.00 | 0.24 | 2.30 | 0.52 | 89.5 |
| 1.52E-08 | 0.18 | 65 | -0.95 | 0.32 | 2.20 | 0.45 | 90.5 |
| 1.53E-08 | 0.16 | 96 | -0.99 | 0.34 | 2.17 | 0.38 | 90.6 |
| 1.59E-08 | 0.03 | 54 | -1.46 | 0.27 | 5.26 | 2.49 | 8.7 |
| 1.64E-08 | 0.10 | 51 | -1.14 | 0.23 | 2.53 | 0.81 | 69.9 |
| 1.70E-08 | 0.13 | 99 | -1.06 | 0.26 | 2.38 | 0.75 | 81.1 |
| 1.72E-08 | 0.16 | 91 | -1.01 | 0.30 | 2.28 | 0.54 | 88.8 |
| 1.78E-08 | 0.07 | 25 | -1.24 | 0.23 | 2.98 | 1.19 | 44.1 |
| 1.83E-08 | 0.00 | 99 | -1.31 | 0.42 | 24.85 | 7.28 | 0 |
| 1.83E-08 | 0.19 | 81 | -0.97 | 0.34 | 2.22 | 0.47 | 91.4 |
| 1.86E-08 | 0.17 | 34 | -1.02 | 0.27 | 2.35 | 0.61 | 86.4 |
| 1.88E-08 | 0.04 | 20 | -1.40 | 0.25 | 4.24 | 1.92 | 16.3 |
| 1.94E-08 | 0.03 | 67 | -1.52 | 0.27 | 6.06 | 2.76 | 5 |
| 2.00E-08 | 0.15 | 2 | -1.04 | 0.25 | 2.40 | 0.72 | 80.2 |
| 2.01E-08 | 0.12 | 90 | -1.11 | 0.26 | 2.53 | 0.80 | 68 |
| 2.06E-08 | 0.03 | 66 | -1.50 | 0.28 | 5.63 | 2.61 | 6.3 |
| 2.08E-08 | 0.09 | 37 | -1.20 | 0.23 | 2.82 | 1.04 | 52.9 |
| 2.08E-08 | 0.04 | 79 | -1.40 | 0.26 | 4.41 | 2.14 | 13.7 |
| 2.10E-08 | 0.19 | 92 | -0.93 | 0.31 | 2.30 | 0.53 | 86.8 |
| 2.14E-08 | 0.19 | 98 | -1.02 | 0.29 | 2.35 | 0.64 | 86.8 |
| 2.17E-08 | 0.13 | 68 | -1.10 | 0.27 | 2.61 | 0.96 | 68.1 |
| 2.18E-08 | 0.02 | 96 | -1.66 | 0.26 | 9.52 | 4.00 | 0.6 |
| 2.19E-08 | 0.09 | 59 | -1.20 | 0.24 | 2.88 | 1.11 | 50.7 |
| 2.27E-08 | 0.05 | 6 | -1.41 | 0.25 | 4.43 | 2.10 | 17 |
| 2.28E-08 | 0.19 | 13 | -0.96 | 0.30 | 2.20 | 0.46 | 88.1 |
| 2.34E-08 | 0.19 | 66 | -0.98 | 0.31 | 2.32 | 0.64 | 84.8 |
| 2.37E-08 | 0.00 | 88 | -1.37 | 0.41 | 30.97 | 8.49 | 0 |
| 2.42E-08 | 0.11 | 4 | -1.16 | 0.25 | 2.78 | 1.09 | 56 |
| 2.43E-08 | 0.14 | 61 | -1.07 | 0.23 | 2.44 | 0.73 | 71.6 |
| 2.44E-08 | 0.16 | 81 | -1.07 | 0.28 | 2.52 | 0.77 | 79.5 |
| 2.44E-08 | 0.01 | 63 | -1.69 | 0.29 | 20.76 | 6.63 | 0 |
| 2.50E-08 | 0.01 | 45 | -1.75 | 0.27 | 17.15 | 6.03 | 0 |
| 2.51E-08 | 0.19 | 52 | -0.98 | 0.32 | 2.36 | 0.68 | 83.5 |
| 2.52E-08 | 0.13 | 66 | -1.12 | 0.26 | 2.65 | 0.93 | 64.5 |
| 2.59E-08 | 0.12 | 74 | -1.11 | 0.27 | 2.72 | 1.03 | 60.2 |
| 2.61E-08 | 0.16 | 46 | -1.05 | 0.25 | 2.41 | 0.73 | 77.7 |
| 2.63E-08 | 0.08 | 13 | -1.29 | 0.25 | 3.54 | 1.54 | 31.3 |
| 2.64E-08 | 0.07 | 27 | -1.33 | 0.26 | 3.79 | 1.77 | 23.5 |
| 2.70E-08 | 0.20 | 30 | -0.95 | 0.32 | 2.35 | 0.66 | 83 |
| 2.71E-08 | 0.19 | 16 | -0.95 | 0.34 | 2.39 | 0.65 | 82 |
| 2.72E-08 | 0.18 | 60 | -1.00 | 0.31 | 2.39 | 0.69 | 78.8 |
| 2.73E-08 | 0.05 | 32 | -1.45 | 0.26 | 4.90 | 2.24 | 12.7 |
| 2.74E-08 | 0.13 | 93 | -1.12 | 0.27 | 2.72 | 1.04 | 63.6 |
| 2.75E-08 | 0.19 | 43 | -0.94 | 0.34 | 2.43 | 0.77 | 81.6 |
| 2.77E-08 | 0.14 | 48 | -1.10 | 0.27 | 2.63 | 0.93 | 64.1 |
| 2.77E-08 | 0.01 | 50 | -1.79 | 0.25 | 16.84 | 5.91 | 0.1 |
| 2.78E-08 | 0.16 | 29 | -1.08 | 0.28 | 2.63 | 0.91 | 73.6 |
| 2.80E-08 | 0.12 | 23 | -1.14 | 0.23 | 2.77 | 1.07 | 55.7 |
| 2.81E-08 | 0.12 | 73 | -1.12 | 0.28 | 2.76 | 1.07 | 60.4 |

| 2.83E-08 | 0.18 | 30 | -0.98 | 0.32 | 2.42 | 0.73 | 79.7 |
|----------|------|----|-------|------|-------|-------|------|
| 2.87E-08 | 0.02 | 96 | -1.77 | 0.24 | 12.41 | 4.85 | 0.1 |
| 2.93E-08 | 0.13 | 74 | -1.09 | 0.29 | 2.74 | 1.01 | 57.5 |
| 3.02E-08 | 0.19 | 90 | -0.98 | 0.29 | 2.37 | 0.66 | 78.8 |
| 3.03E-08 | 0.04 | 15 | -1.59 | 0.25 | 6.71 | 3.20 | 3.5 |
| 3.03E-08 | 0.07 | 78 | -1.31 | 0.26 | 3.77 | 1.80 | 21.6 |
| 3.04E-08 | 0.07 | 19 | -1.36 | 0.26 | 4.05 | 1.93 | 19.9 |
| 3.11E-08 | 0.02 | 14 | -1.74 | 0.25 | 10.40 | 4.45 | 0.7 |
| 3.11E-08 | 0.11 | 53 | -1.17 | 0.27 | 3.00 | 1.26 | 49.7 |
| 3.15E-08 | 0.01 | 66 | -1.74 | 0.28 | 27.55 | 7.94 | 0 |
| 3.16E-08 | 0.04 | 24 | -1.60 | 0.26 | 6.85 | 3.17 | 3.6 |
| 3.19E-08 | 0.13 | 32 | -1.15 | 0.26 | 2.90 | 1.14 | 52.6 |
| 3.29E-08 | 0.19 | 55 | -1.01 | 0.29 | 2.45 | 0.79 | 79.8 |
| 3.29E-08 | 0.07 | 45 | -1.38 | 0.26 | 4.32 | 2.01 | 17.5 |
| 3.30E-08 | 0.13 | 22 | -1.15 | 0.28 | 2.97 | 1.23 | 54 |
| 3.33E-08 | 0.16 | 62 | -1.06 | 0.29 | 2.61 | 0.96 | 65.5 |
| 3.34E-08 | 0.13 | 33 | -1.14 | 0.30 | 2.89 | 1.18 | 54.7 |
| 3.40E-08 | 0.08 | 81 | -1.34 | 0.27 | 4.01 | 1.95 | 20.4 |
| 3.47E-08 | 0.04 | 47 | -1.64 | 0.26 | 7.69 | 3.58 | 2 |
| 3.54E-08 | 0.14 | 18 | -1.11 | 0.27 | 2.76 | 1.07 | 57.6 |
| 3.59E-08 | 0.03 | 77 | -1.71 | 0.26 | 9.07 | 3.99 | 1.7 |
| 3.61E-08 | 0.08 | 63 | -1.36 | 0.25 | 4.16 | 1.96 | 17.6 |
| 3.64E-08 | 0.14 | 40 | -1.13 | 0.28 | 2.92 | 1.18 | 50.4 |
| 3.67E-08 | 0.09 | 24 | -1.31 | 0.28 | 3.78 | 1.79 | 24.7 |
| 3.74E-08 | 0.09 | 24 | -1.31 | 0.29 | 3.90 | 1.79 | 22.9 |
| 3.80E-08 | 0.10 | 31 | -1.28 | 0.28 | 3.63 | 1.63 | 31.5 |
| 3.83E-08 | 0.19 | 84 | -0.95 | 0.35 | 2.52 | 0.83 | 70.1 |
| 3.88E-08 | 0.16 | 45 | -1.07 | 0.32 | 2.71 | 0.97 | 63.5 |
| 3.89E-08 | 0.07 | 71 | -1.39 | 0.28 | 4.54 | 2.12 | 15.3 |
| 3.97E-08 | 0.12 | 59 | -1.18 | 0.26 | 3.09 | 1.29 | 42.4 |
| 3.98E-08 | 0.11 | 14 | -1.22 | 0.27 | 3.37 | 1.52 | 32.7 |
| 4.00E-08 | 0.01 | 65 | -1.85 | 0.25 | 31.47 | 8.79 | 0 |
| 4.01E-08 | 0.18 | 81 | -1.03 | 0.32 | 2.62 | 0.90 | 67.2 |
| 4.07E-08 | 0.00 | 33 | -1.73 | 0.28 | 40.54 | 10.68 | 0 |
| 4.10E-08 | 0.18 | 67 | -1.04 | 0.33 | 2.58 | 0.84 | 66.2 |
| 4.17E-08 | 0.06 | 43 | -1.49 | 0.28 | 5.52 | 2.77 | 9.5 |
| 4.18E-08 | 0.01 | 58 | -1.91 | 0.22 | 22.10 | 7.37 | 0 |
| 4.22E-08 | 0.07 | 87 | -1.45 | 0.27 | 5.07 | 2.60 | 10.6 |
| 4.23E-08 | 0.06 | 3 | -1.53 | 0.27 | 5.83 | 2.75 | 6 |
| 4.23E-08 | 0.07 | 83 | -1.46 | 0.27 | 5.12 | 2.46 | 10.4 |
| 4.31E-08 | 0.09 | 49 | -1.32 | 0.27 | 4.04 | 2.05 | 20.6 |
| 4.31E-08 | 0.12 | 19 | -1.20 | 0.27 | 3.32 | 1.40 | 36.3 |
| 4.41E-08 | 0.15 | 4 | -1.12 | 0.29 | 3.00 | 1.25 | 51.3 |
| 4.42E-08 | 0.17 | 47 | -1.07 | 0.31 | 2.80 | 1.09 | 58.8 |
| 4.43E-08 | 0.05 | 28 | -1.63 | 0.27 | 7.39 | 3.56 | 2.5 |
| 4.45E-08 | 0.01 | 67 | -1.84 | 0.26 | 37.08 | 10.22 | 0 |
| 4.51E-08 | 0.12 | 30 | -1.23 | 0.28 | 3.52 | 1.58 | 34 |
| 4.52E-08 | 0.01 | 67 | -1.90 | 0.24 | 31.81 | 9.51 | 0 |
| 4.53E-08 | 0.07 | 27 | -1.47 | 0.28 | 5.34 | 2.59 | 7.8 |
| 4.53E-08 | 0.05 | 7 | -1.64 | 0.28 | 7.63 | 3.51 | 2.8 |
| 4.58E-08 | 0.08 | 11 | -1.39 | 0.26 | 4.57 | 2.19 | 13.1 |
| 4.60E-08 | 0.02 | 76 | -1.94 | 0.21 | 22.12 | 7.43 | 0 |

| 4.65E-08 | 0.09 | 88 | -1.38 | 0.27 | 4.43 | 2.15 | 15.6 |
|----------|------|----|-------|------|------|------|------|
| 4.70E-08 | 0.17 | 77 | -1.06 | 0.32 | 2.92 | 1.25 | 56 |
| 4.74E-08 | 0.15 | 44 | -1.10 | 0.31 | 3.01 | 1.36 | 49 |
| 4.77E-08 | 0.14 | 52 | -1.14 | 0.33 | 3.19 | 1.46 | 42.1 |
| 4.78E-08 | 0.15 | 82 | -1.12 | 0.31 | 3.08 | 1.28 | 45.5 |
| 4.79E-08 | 0.18 | 48 | -1.05 | 0.30 | 2.71 | 0.99 | 60.5 |
| 4.81E-08 | 0.15 | 61 | -1.12 | 0.31 | 3.07 | 1.32 | 44.4 |
| 4.94E-08 | 0.06 | 49 | -1.61 | 0.27 | 7.05 | 3.42 | 2.4 |
| 4.95E-08 | 0.13 | 84 | -1.21 | 0.26 | 3.46 | 1.48 | 34.5 |
| 4.96E-08 | 0.12 | 73 | -1.23 | 0.29 | 3.63 | 1.66 | 29.9 |
| 4.97E-08 | 0.11 | 29 | -1.28 | 0.31 | 3.91 | 1.90 | 26.2 |
| 5.01E-08 | 0.01 | 31 | -1.97 | 0.21 | 28.86 | 8.91 | 0 |
| 5.11E-08 | 0.17 | 63 | -1.07 | 0.33 | 2.92 | 1.15 | 49.4 |
| 5.14E-08 | 0.16 | 86 | -1.10 | 0.30 | 3.01 | 1.23 | 49.4 |
| 5.16E-08 | 0.09 | 20 | -1.38 | 0.29 | 4.65 | 2.23 | 12.2 |
| 5.18E-08 | 0.16 | 41 | -1.09 | 0.30 | 3.02 | 1.19 | 50.1 |
| 5.19E-08 | 0.06 | 41 | -1.60 | 0.28 | 6.86 | 3.36 | 4.8 |
| 5.28E-08 | 0.04 | 71 | -1.78 | 0.25 | 10.46 | 4.49 | 0.6 |
| 5.28E-08 | 0.06 | 46 | -1.57 | 0.28 | 6.61 | 3.21 | 4.1 |
| 5.32E-08 | 0.01 | 60 | -1.95 | 0.23 | 36.12 | 10.16 | 0 |
| 5.34E-08 | 0.20 | 42 | -0.99 | 0.34 | 2.66 | 0.95 | 60.1 |
| 5.37E-08 | 0.11 | 82 | -1.32 | 0.28 | 4.16 | 1.95 | 22.4 |
| 5.38E-08 | 0.12 | 96 | -1.26 | 0.29 | 3.82 | 1.73 | 22.7 |
| 5.38E-08 | 0.14 | 26 | -1.17 | 0.31 | 3.34 | 1.45 | 36.5 |
| 5.42E-08 | 0.01 | 87 | -1.90 | 0.24 | 40.92 | 10.81 | 0 |
| 5.45E-08 | 0.12 | 11 | -1.24 | 0.28 | 3.68 | 1.62 | 26.4 |
| 5.48E-08 | 0.11 | 20 | -1.30 | 0.30 | 4.13 | 1.95 | 18.7 |
| 5.56E-08 | 0.10 | 53 | -1.33 | 0.29 | 4.37 | 2.12 | 18 |
| 5.57E-08 | 0.13 | 51 | -1.23 | 0.30 | 3.67 | 1.83 | 27.5 |
| 5.57E-08 | 0.18 | 80 | -1.08 | 0.31 | 3.08 | 1.26 | 50.6 |
| 5.58E-08 | 0.19 | 78 | -1.02 | 0.35 | 2.83 | 1.08 | 58.5 |
| 5.61E-08 | 0.06 | 29 | -1.67 | 0.26 | 8.05 | 3.73 | 2.3 |
| 5.61E-08 | 0.11 | 61 | -1.31 | 0.29 | 4.12 | 1.92 | 23.2 |
| 5.64E-08 | 0.20 | 54 | -1.00 | 0.32 | 2.84 | 1.11 | 58.6 |
| 5.64E-08 | 0.19 | 14 | -1.03 | 0.35 | 2.92 | 1.15 | 55.1 |
| 5.67E-08 | 0.18 | 63 | -1.04 | 0.32 | 2.88 | 1.18 | 56 |
| 5.69E-08 | 0.10 | 95 | -1.39 | 0.30 | 4.83 | 2.40 | 14.4 |
| 5.77E-08 | 0.04 | 73 | -1.87 | 0.22 | 13.03 | 5.21 | 0.1 |
| 5.81E-08 | 0.15 | 22 | -1.16 | 0.31 | 3.38 | 1.53 | 37.4 |
| 5.83E-08 | 0.13 | 78 | -1.21 | 0.29 | 3.55 | 1.65 | 29.4 |
| 5.83E-08 | 0.05 | 9 | -1.72 | 0.26 | 9.01 | 4.18 | 1.4 |
| 5.89E-08 | 0.03 | 55 | -1.98 | 0.21 | 19.13 | 6.97 | 0 |
| 5.97E-08 | 0.15 | 64 | -1.14 | 0.32 | 3.37 | 1.49 | 36.8 |
| 5.98E-08 | 0.04 | 11 | -1.83 | 0.25 | 11.91 | 4.96 | 0.4 |
| 6.04E-08 | 0.15 | 32 | -1.16 | 0.29 | 3.32 | 1.42 | 35.1 |
| 6.04E-08 | 0.05 | 38 | -1.79 | 0.26 | 10.77 | 4.82 | 0.9 |
| 6.05E-08 | 0.17 | 29 | -1.11 | 0.30 | 3.13 | 1.26 | 42.4 |
| 6.08E-08 | 0.08 | 58 | -1.51 | 0.29 | 6.10 | 3.02 | 6.6 |
| 6.09E-08 | 0.08 | 40 | -1.51 | 0.29 | 6.07 | 2.96 | 6.1 |
| 6.10E-08 | 0.04 | 95 | -1.86 | 0.24 | 12.67 | 5.25 | 0.1 |
| 6.17E-08 | 0.09 | 70 | -1.41 | 0.31 | 5.19 | 2.54 | 11.3 |
| 6.18E-08 | 0.00 | 23 | -1.76 | 0.28 | 61.18 | 15.79 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6.20E-08 | 0.00 | 10 | -1.47 | 0.37 | 78.73 | 18.20 | 0 |
| 6.25E-08 | 0.04 | 61 | -1.85 | 0.24 | 11.91 | 5.03 | 0.6 |
| 6.26E-08 | 0.01 | 3 | -1.91 | 0.24 | 49.66 | 12.79 | 0 |
| 6.28E-08 | 0.09 | 42 | -1.43 | 0.29 | 5.27 | 2.55 | 7.9 |
| 6.29E-08 | 0.06 | 28 | -1.66 | 0.27 | 8.06 | 3.73 | 2.9 |
| 6.29E-08 | 0.12 | 38 | -1.30 | 0.30 | 4.26 | 2.04 | 17.7 |
| 6.30E-08 | 0.03 | 39 | -1.97 | 0.21 | 18.09 | 6.83 | 0.1 |
| 6.33E-08 | 0.12 | 8 | -1.30 | 0.30 | 4.22 | 2.04 | 18.2 |
| 6.35E-08 | 0.18 | 63 | -1.07 | 0.33 | 3.12 | 1.31 | 45.9 |
| 6.38E-08 | 0.09 | 37 | -1.43 | 0.30 | 5.28 | 2.70 | 7.9 |
| 6.39E-08 | 0.14 | 87 | -1.21 | 0.30 | 3.74 | 1.72 | 25.8 |
| 6.44E-08 | 0.06 | 87 | -1.68 | 0.26 | 8.29 | 3.84 | 1.4 |
| 6.51E-08 | 0.18 | 9 | -1.02 | 0.37 | 3.01 | 1.20 | 45.9 |
| 6.52E-08 | 0.06 | 46 | -1.73 | 0.28 | 9.52 | 4.55 | 1.5 |
| 6.55E-08 | 0.02 | 90 | -2.03 | 0.19 | 27.29 | 8.98 | 0 |
| 6.60E-08 | 0.11 | 38 | -1.37 | 0.31 | 4.79 | 2.43 | 14 |
| 6.63E-08 | 0.10 | 94 | -1.38 | 0.31 | 4.86 | 2.45 | 11.8 |
| 6.63E-08 | 0.17 | 48 | -1.12 | 0.31 | 3.19 | 1.34 | 38.4 |
| 6.66E-08 | 0.16 | 91 | -1.14 | 0.32 | 3.48 | 1.57 | 33.5 |
| 6.70E-08 | 0.11 | 22 | -1.35 | 0.31 | 4.71 | 2.35 | 13.9 |
| 6.78E-08 | 0.14 | 17 | -1.21 | 0.32 | 3.75 | 1.68 | 26.2 |
| 6.78E-08 | 0.17 | 39 | -1.10 | 0.37 | 3.27 | 1.42 | 40.7 |
| 6.84E-08 | 0.01 | 27 | -1.95 | 0.24 | 54.12 | 13.78 | 0 |
| 6.84E-08 | 0.13 | 92 | -1.29 | 0.31 | 4.21 | 2.01 | 20.4 |
| 6.88E-08 | 0.16 | 37 | -1.12 | 0.33 | 3.39 | 1.53 | 33.1 |
| 6.89E-08 | 0.05 | 52 | -1.84 | 0.24 | 12.02 | 5.18 | 0.2 |
| 6.90E-08 | 0.11 | 83 | -1.36 | 0.31 | 4.79 | 2.36 | 13.4 |
| 6.90E-08 | 0.04 | 30 | -1.91 | 0.24 | 14.60 | 5.86 | 0.2 |
| 7.10E-08 | 0.01 | 9 | -2.04 | 0.20 | 38.60 | 11.53 | 0 |
| 7.16E-08 | 0.12 | 33 | -1.32 | 0.31 | 4.46 | 2.13 | 16.5 |
| 7.19E-08 | 0.11 | 12 | -1.38 | 0.29 | 4.99 | 2.47 | 11.6 |
| 7.21E-08 | 0.10 | 75 | -1.44 | 0.31 | 5.47 | 2.79 | 9.5 |
| 7.25E-08 | 0.10 | 67 | -1.43 | 0.30 | 5.43 | 2.55 | 9.8 |
| 7.27E-08 | 0.12 | 22 | -1.35 | 0.29 | 4.75 | 2.19 | 13 |
| 7.32E-08 | 0.15 | 77 | -1.20 | 0.32 | 3.73 | 1.82 | 26.4 |
| 7.39E-08 | 0.07 | 6 | -1.68 | 0.28 | 8.59 | 4.08 | 2.1 |
| 7.41E-08 | 0.05 | 80 | -1.80 | 0.25 | 10.93 | 4.87 | 0.3 |
| 7.48E-08 | 0.01 | 62 | -2.04 | 0.20 | 42.51 | 12.24 | 0 |
| 7.53E-08 | 0.04 | 85 | -1.98 | 0.21 | 17.44 | 6.94 | 0 |
| 7.58E-08 | 0.11 | 18 | -1.41 | 0.31 | 5.28 | 2.70 | 10.7 |
| 7.64E-08 | 0.14 | 65 | -1.24 | 0.33 | 4.09 | 2.01 | 21.7 |
| 7.64E-08 | 0.20 | 81 | -1.04 | 0.35 | 3.11 | 1.29 | 43.4 |
| 7.65E-08 | 0.10 | 41 | -1.44 | 0.29 | 5.50 | 2.62 | 8.3 |
| 7.67E-08 | 0.04 | 34 | -1.98 | 0.21 | 17.65 | 6.70 | 0.1 |
| 7.70E-08 | 0.10 | 4 | -1.43 | 0.31 | 5.47 | 2.66 | 8.6 |
| 7.70E-08 | 0.12 | 48 | -1.35 | 0.29 | 4.81 | 2.35 | 15.4 |
| 7.72E-08 | 0.11 | 87 | -1.41 | 0.31 | 5.42 | 2.70 | 8.8 |
| 7.75E-08 | 0.10 | 9 | -1.43 | 0.32 | 5.55 | 2.73 | 9.1 |
| 7.75E-08 | 0.20 | 69 | -1.05 | 0.33 | 3.12 | 1.29 | 44.8 |
| 7.78E-08 | 0.16 | 62 | -1.18 | 0.35 | 3.75 | 1.69 | 27.6 |
| 7.82E-08 | 0.07 | 67 | -1.71 | 0.27 | 9.20 | 4.19 | 1.8 |
| 7.94E-08 | 0.14 | 54 | -1.23 | 0.33 | 4.05 | 1.96 | 22.7 |

| 7.97E-08 | 0.05 | 8 | -1.86 | 0.23 | 12.50 | 5.35 | 0.4 |
|---|---|---|---|---|---|---|---|
| 7.98E-08 | 0.17 | 61 | -1.11 | 0.35 | 3.48 | 1.60 | 31.1 |
| 7.99E-08 | 0.02 | 60 | -2.09 | 0.18 | 38.34 | 11.27 | 0 |
| 8.02E-08 | 0.03 | 35 | -2.04 | 0.18 | 21.93 | 8.00 | 0.1 |
| 8.03E-08 | 0.08 | 31 | -1.64 | 0.28 | 7.85 | 3.88 | 2.3 |
| 8.13E-08 | 0.06 | 34 | -1.76 | 0.26 | 10.16 | 4.64 | 1 |
| 8.14E-08 | 0.08 | 58 | -1.60 | 0.28 | 7.36 | 3.52 | 3 |
| 8.27E-08 | 0.04 | 10 | -1.93 | 0.23 | 15.22 | 6.20 | 0 |
| 8.32E-08 | 0.07 | 32 | -1.73 | 0.25 | 9.66 | 4.41 | 1 |
| 8.32E-08 | 0.20 | 7 | -1.06 | 0.36 | 3.34 | 1.51 | 40.8 |
| 8.34E-08 | 0.04 | 20 | -1.96 | 0.21 | 16.27 | 6.31 | 0 |
| 8.36E-08 | 0.11 | 73 | -1.46 | 0.30 | 5.86 | 2.88 | 7.4 |
| 8.38E-08 | 0.02 | 68 | -2.09 | 0.19 | 29.35 | 9.70 | 0 |
| 8.44E-08 | 0.17 | 94 | -1.12 | 0.37 | 3.55 | 1.74 | 31.5 |
| 8.49E-08 | 0.01 | 82 | -2.01 | 0.22 | 59.35 | 15.85 | 0 |
| 8.51E-08 | 0.04 | 81 | -2.00 | 0.20 | 18.04 | 6.68 | 0 |
| 8.52E-08 | 0.10 | 39 | -1.48 | 0.30 | 6.03 | 3.05 | 6.3 |
| 8.54E-08 | 0.07 | 95 | -1.74 | 0.27 | 9.98 | 4.71 | 1.2 |
| 8.60E-08 | 0.15 | 16 | -1.20 | 0.34 | 4.10 | 2.01 | 20.2 |
| 8.70E-08 | 0.16 | 29 | -1.20 | 0.33 | 3.85 | 1.84 | 25.4 |
| 8.70E-08 | 0.06 | 80 | -1.81 | 0.26 | 11.14 | 4.82 | 0.9 |
| 8.78E-08 | 0.02 | 70 | -2.10 | 0.18 | 29.64 | 9.70 | 0 |
| 8.78E-08 | 0.05 | 26 | -1.91 | 0.23 | 14.48 | 5.88 | 0.1 |
| 8.83E-08 | 0.01 | 60 | -2.10 | 0.19 | 47.20 | 13.15 | 0 |
| 8.85E-08 | 0.00 | 87 | -1.91 | 0.24 | 76.38 | 18.27 | 0 |
| 8.87E-08 | 0.10 | 9 | -1.47 | 0.31 | 6.02 | 2.96 | 5.5 |
| 8.90E-08 | 0.06 | 5 | -1.86 | 0.25 | 12.60 | 5.35 | 0.4 |
| 8.97E-08 | 0.16 | 63 | -1.20 | 0.35 | 4.08 | 1.96 | 21.6 |
| 8.99E-08 | 0.02 | 77 | -2.10 | 0.18 | 29.65 | 9.61 | 0 |
| 1.01E-09 | 0.16 | 90 | -1.15 | NA | 2.00 | NA | 99.9 |
| 1.01E-09 | 0.03 | 96 | -1.09 | 0.16 | 2.05 | 0.21 | 95.7 |
| 1.04E-09 | 0.11 | 50 | -0.63 | NA | 2.00 | NA | 99.9 |
| 1.04E-09 | 0.11 | 89 | -1.15 | NA | 2.00 | NA | 99.9 |
| 1.07E-09 | 0.06 | 82 | -1.05 | 0.17 | 2.00 | 0.00 | 98.8 |
| 1.17E-09 | 0.01 | 7 | -0.98 | 0.30 | 2.45 | 0.77 | 74.6 |
| 1.21E-09 | 0.13 | 61 | -1.07 | NA | 2.00 | NA | 99.9 |
| 1.25E-09 | 0.09 | 49 | -1.03 | 0.30 | 2.17 | 0.39 | 98.8 |
| 1.31E-09 | 0.04 | 61 | -1.12 | 0.14 | 2.13 | 0.34 | 96.8 |
| 1.41E-09 | 0.01 | 87 | -1.01 | 0.28 | 2.39 | 0.61 | 79.6 |
| 1.52E-09 | 0.12 | 65 | -1.00 | 0.07 | 2.00 | 0.00 | 99.7 |
| 1.52E-09 | 0.19 | 79 | -1.15 | 0.00 | 2.00 | 0.00 | 99.8 |
| 1.62E-09 | 0.01 | 11 | -1.06 | 0.30 | 2.47 | 0.76 | 72 |
| 1.63E-09 | 0.09 | 87 | -1.15 | 0.08 | 2.00 | 0.00 | 99.7 |
| 1.68E-09 | 0.13 | 44 | -0.84 | 0.33 | 2.00 | 0.00 | 99.3 |
| 1.76E-09 | 0.04 | 9 | -1.11 | 0.21 | 2.22 | 0.50 | 94.5 |
| 1.81E-09 | 0.08 | 91 | -1.09 | 0.14 | 2.00 | 0.00 | 98.7 |
| 1.86E-09 | 0.03 | 24 | -1.09 | 0.21 | 2.29 | 0.60 | 85.6 |
| 1.89E-09 | 0.03 | 37 | -1.11 | 0.20 | 2.27 | 0.54 | 91.4 |
| 1.89E-09 | 0.02 | 56 | -1.09 | 0.22 | 2.35 | 0.63 | 78.8 |
| 1.89E-09 | 0.05 | 78 | -1.12 | 0.21 | 2.13 | 0.40 | 96 |
| 1.90E-09 | 0.11 | 82 | -0.92 | 0.24 | 2.00 | 0.00 | 98.7 |
| 1.93E-09 | 0.02 | 89 | -1.09 | 0.21 | 2.33 | 0.57 | 78.9 |

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|---|---|---|---|---|---|---|---|
| 1.95E-09 | 0.11 | 1 | -1.01 | 0.22 | 2.09 | 0.30 | 98.9 |
| 1.97E-09 | 0.12 | 62 | -1.34 | 0.12 | 3.00 | 0.00 | 99.8 |
| 1.97E-09 | 0.04 | 94 | -1.12 | 0.17 | 2.21 | 0.44 | 90.9 |
| 2.00E-09 | 0.02 | 57 | -1.09 | 0.24 | 2.25 | 0.54 | 81.9 |
| 2.05E-09 | 0.02 | 26 | -1.11 | 0.20 | 2.29 | 0.64 | 79.8 |
| 2.11E-09 | 0.02 | 94 | -1.09 | 0.23 | 2.32 | 0.56 | 81.3 |
| 2.16E-09 | 0.01 | 73 | -0.99 | 0.36 | 3.05 | 1.33 | 42.7 |
| 2.19E-09 | 0.01 | 44 | -1.03 | 0.32 | 2.70 | 0.94 | 57.7 |
| 2.21E-09 | 0.04 | 23 | -1.10 | 0.23 | 2.21 | 0.55 | 92.4 |
| 2.21E-09 | 0.01 | 29 | -1.09 | 0.28 | 2.61 | 0.82 | 59.9 |
| 2.24E-09 | 0.09 | 76 | -1.05 | 0.17 | 2.00 | 0.00 | 98 |
| 2.27E-09 | 0.04 | 77 | -1.13 | 0.18 | 2.19 | 0.43 | 88.3 |
| 2.28E-09 | 0.00 | 86 | -0.46 | 0.70 | 4.60 | 2.07 | 9.5 |
| 2.29E-09 | 0.02 | 54 | -1.09 | 0.19 | 2.29 | 0.51 | 81.3 |
| 2.32E-09 | 0.04 | 70 | -1.11 | 0.19 | 2.24 | 0.51 | 91.7 |
| 2.33E-09 | 0.12 | 38 | -1.07 | 0.12 | 2.00 | 0.00 | 99.4 |
| 2.41E-09 | 0.13 | 52 | -1.10 | 0.21 | 2.22 | 0.67 | 99.1 |
| 2.47E-09 | 0.16 | 68 | -1.05 | 0.16 | 2.00 | 0.00 | 99.6 |
| 2.50E-09 | 0.18 | 59 | -0.82 | 0.05 | 2.00 | 0.00 | 99.8 |
| 2.50E-09 | 0.01 | 23 | -1.05 | 0.33 | 2.98 | 1.19 | 42.3 |
| 2.52E-09 | 0.12 | 39 | -1.07 | 0.21 | 2.00 | 0.00 | 98.9 |
| 2.56E-09 | 0.13 | 15 | -1.00 | 0.10 | 2.00 | 0.00 | 99.8 |
| 2.62E-09 | 0.10 | 78 | -1.03 | 0.25 | 2.07 | 0.27 | 98.6 |
| 2.65E-09 | 0.07 | 8 | -1.09 | 0.22 | 2.24 | 0.50 | 96.7 |
| 2.69E-09 | 0.11 | 79 | -1.05 | 0.14 | 2.00 | 0.00 | 98.4 |
| 2.78E-09 | 0.19 | 46 | -0.93 | 0.41 | 2.00 | 0.00 | 99.8 |
| 2.79E-09 | 0.05 | 50 | -1.15 | 0.17 | 2.30 | 0.55 | 89.5 |
| 2.80E-09 | 0.14 | 73 | -1.10 | 0.15 | 2.13 | 0.35 | 99.2 |
| 2.81E-09 | 0.16 | 20 | -0.73 | 0.43 | 2.00 | 0.00 | 99.7 |
| 2.87E-09 | 0.18 | 36 | -1.15 | 0.11 | 2.00 | 0.00 | 99.6 |
| 2.93E-09 | 0.18 | 32 | -0.89 | 0.21 | 2.00 | 0.00 | 99.4 |
| 2.93E-09 | 0.14 | 67 | -1.05 | 0.19 | 2.00 | 0.00 | 98.7 |
| 2.95E-09 | 0.05 | 97 | -1.08 | 0.22 | 2.13 | 0.37 | 91.5 |
| 2.95E-09 | 0.03 | 83 | -1.12 | 0.20 | 2.33 | 0.67 | 79.2 |
| 3.06E-09 | 0.06 | 66 | -1.10 | 0.18 | 2.19 | 0.49 | 94.8 |
| 3.09E-09 | 0.14 | 81 | -0.99 | 0.14 | 2.25 | 0.46 | 99.2 |
| 3.11E-09 | 0.20 | 99 | -0.93 | 0.07 | 2.00 | 0.00 | 99.7 |
| 3.12E-09 | 0.16 | 66 | -0.89 | 0.26 | 2.00 | 0.00 | 99.6 |
| 3.24E-09 | 0.12 | 96 | -1.01 | 0.18 | 2.13 | 0.34 | 98.4 |
| 3.29E-09 | 0.15 | 12 | -0.96 | 0.28 | 2.00 | 0.00 | 99.6 |
| 3.32E-09 | 0.06 | 4 | -1.12 | 0.17 | 2.20 | 0.50 | 90.5 |
| 3.34E-09 | 0.13 | 16 | -0.97 | 0.23 | 2.00 | 0.00 | 98.9 |
| 3.36E-09 | 0.09 | 85 | -1.11 | 0.17 | 2.21 | 0.41 | 96.6 |
| 3.41E-09 | 0.14 | 29 | -0.93 | 0.24 | 2.08 | 0.28 | 98.7 |
| 3.45E-09 | 0.12 | 51 | -1.04 | 0.19 | 2.00 | 0.00 | 97.4 |
| 3.46E-09 | 0.07 | 37 | -1.07 | 0.19 | 2.13 | 0.33 | 94.4 |
| 3.47E-09 | 0.04 | 87 | -1.15 | 0.17 | 2.29 | 0.58 | 77.6 |
| 3.48E-09 | 0.18 | 35 | -1.15 | 0.11 | 2.00 | 0.00 | 99.8 |
| 3.54E-09 | 0.20 | 50 | -0.85 | 0.42 | 2.00 | 0.00 | 99.3 |
| 3.55E-09 | 0.19 | 20 | -1.15 | 0.16 | 2.22 | 0.44 | 99.1 |
| 3.56E-09 | 0.15 | 57 | -0.96 | 0.27 | 2.18 | 0.60 | 98.9 |
| 3.60E-09 | 0.01 | 50 | -1.11 | 0.32 | 3.45 | 1.46 | 27.2 |

| 3.64E-09 | 0.09 | 90 | -1.11 | 0.16 | 2.06 | 0.24 | 96.7 |
|---|---|---|---|---|---|---|---|
| 3.68E-09 | 0.19 | 26 | -0.96 | 0.22 | 2.13 | 0.35 | 99.2 |
| 3.72E-09 | 0.12 | 96 | -0.96 | 0.39 | 2.00 | 0.00 | 98.9 |
| 3.74E-09 | 0.04 | 29 | -1.13 | 0.18 | 2.32 | 0.58 | 81.4 |
| 3.84E-09 | 0.16 | 28 | -0.94 | 0.35 | 2.11 | 0.33 | 99.1 |
| 3.86E-09 | 0.11 | 65 | -1.06 | 0.22 | 2.04 | 0.20 | 97.6 |
| 3.86E-09 | 0.14 | 45 | -1.02 | 0.23 | 2.09 | 0.30 | 98.9 |
| 3.87E-09 | 0.15 | 1 | -1.00 | 0.30 | 2.00 | 0.00 | 98.2 |
| 3.89E-09 | 0.03 | 76 | -1.15 | 0.19 | 2.44 | 0.74 | 72.1 |
| 3.89E-09 | 0.05 | 20 | -1.15 | 0.20 | 2.37 | 0.59 | 86.3 |
| 3.91E-09 | 0.05 | 6 | -1.16 | 0.17 | 2.39 | 0.64 | 83.7 |
| 3.98E-09 | 0.12 | 68 | -1.02 | 0.26 | 2.11 | 0.32 | 98.2 |
| 4.03E-09 | 0.11 | 10 | -1.09 | 0.20 | 2.16 | 0.37 | 96.9 |
| 4.05E-09 | 0.08 | 59 | -1.07 | 0.19 | 2.08 | 0.27 | 93.8 |
| 4.13E-09 | 0.05 | 85 | -1.13 | 0.20 | 2.28 | 0.57 | 86.7 |
| 4.15E-09 | 0.07 | 56 | -1.13 | 0.16 | 2.23 | 0.49 | 90 |
| 4.18E-09 | 0.02 | 75 | -1.16 | 0.26 | 3.11 | 1.25 | 37.9 |
| 4.21E-09 | 0.09 | 90 | -1.06 | 0.20 | 2.14 | 0.39 | 93.6 |
| 4.21E-09 | 0.06 | 21 | -1.09 | 0.18 | 2.18 | 0.44 | 90 |
| 4.21E-09 | 0.14 | 11 | -0.95 | 0.27 | 2.06 | 0.24 | 98.2 |
| 4.22E-09 | 0.08 | 55 | -1.10 | 0.22 | 2.17 | 0.42 | 93 |
| 4.22E-09 | 0.00 | 2 | -0.69 | 0.57 | 7.52 | 2.97 | 1.1 |
| 4.23E-09 | 0.13 | 99 | -1.08 | 0.11 | 2.19 | 0.40 | 97.9 |
| 4.24E-09 | 0.16 | 25 | -1.02 | 0.25 | 2.00 | 0.00 | 98.6 |
| 4.24E-09 | 0.10 | 69 | -1.08 | 0.17 | 2.17 | 0.45 | 96.5 |
| 4.30E-09 | 0.02 | 87 | -1.18 | 0.24 | 2.78 | 1.01 | 55.2 |
| 4.31E-09 | 0.10 | 67 | -1.06 | 0.15 | 2.05 | 0.23 | 96.3 |
| 4.35E-09 | 0.18 | 33 | -0.92 | 0.36 | 2.40 | 0.55 | 99.5 |
| 4.40E-09 | 0.19 | 72 | -0.82 | 0.33 | 2.08 | 0.29 | 98.8 |
| 4.44E-09 | 0.08 | 70 | -1.10 | 0.19 | 2.20 | 0.45 | 94.6 |
| 4.45E-09 | 0.02 | 9 | -1.18 | 0.26 | 3.01 | 1.18 | 39.8 |
| 4.46E-09 | 0.18 | 23 | -0.94 | 0.23 | 2.08 | 0.29 | 98.8 |
| 4.46E-09 | 0.01 | 35 | -1.17 | 0.32 | 3.90 | 1.70 | 19.1 |
| 4.62E-09 | 0.16 | 15 | -0.97 | 0.25 | 2.07 | 0.26 | 98.5 |
| 4.62E-09 | 0.15 | 97 | -0.96 | 0.30 | 2.07 | 0.26 | 98.5 |
| 4.65E-09 | 0.03 | 33 | -1.16 | 0.22 | 2.73 | 1.00 | 52.9 |
| 4.66E-09 | 0.13 | 82 | -1.07 | 0.21 | 2.13 | 0.34 | 96.9 |
| 4.71E-09 | 0.08 | 82 | -1.12 | 0.20 | 2.26 | 0.54 | 91.4 |
| 4.76E-09 | 0.18 | 26 | -0.91 | 0.37 | 2.00 | 0.00 | 98.6 |
| 4.79E-09 | 0.19 | 1 | -0.91 | 0.35 | 2.13 | 0.35 | 99.2 |
| 4.81E-09 | 0.05 | 9 | -1.16 | 0.17 | 2.38 | 0.67 | 74.5 |
| 4.82E-09 | 0.00 | 61 | -0.87 | 0.55 | 7.52 | 3.23 | 1.1 |
| 4.91E-09 | 0.01 | 56 | -1.20 | 0.31 | 3.65 | 1.65 | 24.4 |
| 4.93E-09 | 0.01 | 98 | -1.17 | 0.39 | 5.51 | 2.45 | 5.8 |
| 4.94E-09 | 0.20 | 97 | -0.99 | 0.31 | 2.13 | 0.35 | 99.2 |
| 5.00E-09 | 0.04 | 2 | -1.15 | 0.21 | 2.41 | 0.76 | 72.2 |
| 5.07E-09 | 0.07 | 9 | -1.10 | 0.25 | 2.24 | 0.43 | 89.9 |
| 5.11E-09 | 0.13 | 68 | -1.09 | 0.19 | 2.12 | 0.41 | 96.6 |
| 5.12E-09 | 0.15 | 76 | -0.94 | 0.23 | 2.08 | 0.28 | 98.7 |
| 5.18E-09 | 0.01 | 45 | -1.20 | 0.30 | 3.78 | 1.75 | 18.7 |
| 5.23E-09 | 0.09 | 18 | -1.07 | 0.19 | 2.16 | 0.37 | 92.5 |
| 5.29E-09 | 0.10 | 95 | -1.04 | 0.20 | 2.10 | 0.37 | 95.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5.32E-09 | 0.08 | 25 | -1.11 | 0.21 | 2.23 | 0.54 | 92.7 |
| 5.34E-09 | 0.09 | 34 | -1.09 | 0.19 | 2.17 | 0.41 | 92.4 |
| 5.38E-09 | 0.16 | 38 | -0.98 | 0.20 | 2.00 | 0.00 | 99.1 |
| 5.41E-09 | 0.19 | 14 | -0.80 | 0.30 | 2.00 | 0.00 | 99.1 |
| 5.48E-09 | 0.01 | 90 | -1.25 | 0.29 | 4.15 | 1.93 | 16.3 |
| 5.49E-09 | 0.02 | 51 | -1.23 | 0.27 | 3.56 | 1.55 | 24.3 |
| 5.50E-09 | 0.06 | 64 | -1.17 | 0.17 | 2.37 | 0.69 | 83.9 |
| 5.62E-09 | 0.04 | 63 | -1.18 | 0.21 | 2.61 | 0.90 | 63.8 |
| 5.69E-09 | 0.12 | 88 | -1.01 | 0.30 | 2.26 | 0.54 | 95.8 |
| 5.71E-09 | 0.08 | 65 | -1.10 | 0.20 | 2.16 | 0.39 | 90.5 |
| 5.75E-09 | 0.02 | 38 | -1.24 | 0.25 | 3.42 | 1.47 | 30.5 |
| 5.77E-09 | 0.15 | 39 | -0.98 | 0.28 | 2.05 | 0.22 | 97.9 |
| 5.90E-09 | 0.16 | 82 | -1.01 | 0.27 | 2.17 | 0.51 | 98.2 |
| 5.94E-09 | 0.13 | 32 | -1.00 | 0.26 | 2.17 | 0.45 | 96.5 |
| 5.95E-09 | 0.18 | 78 | -0.88 | 0.56 | 2.07 | 0.26 | 98.5 |
| 6.00E-09 | 0.09 | 85 | -1.10 | 0.20 | 2.17 | 0.43 | 90.2 |
| 6.01E-09 | 0.02 | 64 | -1.22 | 0.25 | 3.25 | 1.33 | 34 |
| 6.07E-09 | 0.15 | 98 | -0.98 | 0.22 | 2.09 | 0.29 | 96.6 |
| 6.09E-09 | 0.05 | 75 | -1.16 | 0.19 | 2.42 | 0.74 | 76.8 |
| 6.10E-09 | 0.08 | 73 | -1.12 | 0.24 | 2.34 | 0.60 | 88.1 |
| 6.11E-09 | 0.12 | 41 | -1.00 | 0.26 | 2.17 | 0.38 | 94.8 |
| 6.14E-09 | 0.13 | 4 | -0.99 | 0.27 | 2.09 | 0.29 | 96.6 |
| 6.17E-09 | 0.04 | 86 | -1.19 | 0.23 | 2.62 | 0.92 | 62.7 |
| 6.18E-09 | 0.16 | 10 | -1.01 | 0.27 | 2.09 | 0.29 | 97.8 |
| 6.19E-09 | 0.01 | 44 | -1.25 | 0.29 | 4.22 | 1.89 | 13.3 |
| 6.20E-09 | 0.13 | 16 | -1.10 | 0.16 | 2.15 | 0.36 | 95.9 |
| 6.20E-09 | 0.07 | 19 | -1.11 | 0.21 | 2.21 | 0.50 | 86.2 |
| 6.33E-09 | 0.06 | 36 | -1.16 | 0.19 | 2.41 | 0.77 | 82.5 |
| 6.35E-09 | 0.10 | 91 | -1.09 | 0.18 | 2.14 | 0.38 | 90.6 |
| 6.35E-09 | 0.17 | 93 | -0.85 | 0.34 | 2.10 | 0.30 | 96.9 |
| 6.39E-09 | 0.11 | 97 | -1.09 | 0.20 | 2.15 | 0.40 | 94 |
| 6.40E-09 | 0.05 | 14 | -1.17 | 0.20 | 2.54 | 0.80 | 68.9 |
| 6.42E-09 | 0.19 | 89 | -0.84 | 0.30 | 2.00 | 0.00 | 99 |
| 6.47E-09 | 0.06 | 82 | -1.16 | 0.18 | 2.45 | 0.76 | 79.6 |
| 6.52E-09 | 0.00 | 71 | -1.21 | 0.40 | 7.28 | 3.06 | 2.5 |
| 6.60E-09 | 0.03 | 24 | -1.24 | 0.24 | 3.25 | 1.36 | 37 |
| 6.61E-09 | 0.16 | 80 | -1.08 | 0.20 | 2.19 | 0.49 | 97.4 |
| 6.65E-09 | 0.09 | 70 | -1.12 | 0.21 | 2.29 | 0.68 | 88.7 |
| 6.75E-09 | 0.03 | 30 | -1.23 | 0.23 | 3.05 | 1.22 | 40.6 |
| 6.76E-09 | 0.18 | 95 | -0.90 | 0.28 | 2.04 | 0.20 | 97.6 |
| 6.80E-09 | 0.04 | 53 | -1.22 | 0.22 | 2.82 | 1.03 | 52.1 |
| 6.81E-09 | 0.14 | 10 | -0.93 | 0.32 | 2.05 | 0.22 | 96.1 |
| 6.82E-09 | 0.03 | 33 | -1.23 | 0.25 | 3.22 | 1.42 | 35.9 |
| 6.84E-09 | 0.02 | 46 | -1.26 | 0.26 | 3.51 | 1.56 | 29.3 |
| 6.88E-09 | 0.14 | 58 | -1.01 | 0.25 | 2.07 | 0.26 | 94.6 |
| 6.99E-09 | 0.11 | 9 | -1.05 | 0.24 | 2.23 | 0.45 | 92.6 |
| 7.01E-09 | 0.07 | 31 | -1.16 | 0.18 | 2.42 | 0.64 | 78.7 |
| 7.06E-09 | 0.19 | 25 | -1.03 | 0.24 | 2.08 | 0.28 | 98.7 |
| 7.08E-09 | 0.04 | 42 | -1.21 | 0.21 | 2.77 | 1.07 | 59.5 |
| 7.10E-09 | 0.11 | 82 | -1.09 | 0.23 | 2.22 | 0.45 | 92.8 |
| 7.11E-09 | 0.05 | 57 | -1.19 | 0.20 | 2.62 | 0.91 | 67.6 |
| 7.12E-09 | 0.10 | 32 | -1.09 | 0.21 | 2.20 | 0.42 | 89.3 |

| 7.13E-09 | 0.15 | 87 | -0.96 | 0.23 | 2.14 | 0.35 | 95.6 |
|---|---|---|---|---|---|---|---|
| 7.18E-09 | 0.15 | 87 | -0.99 | 0.16 | 2.15 | 0.36 | 96.7 |
| 7.19E-09 | 0.19 | 90 | -0.77 | 0.45 | 2.08 | 0.28 | 97.6 |
| 7.21E-09 | 0.14 | 79 | -1.05 | 0.23 | 2.16 | 0.42 | 94.9 |
| 7.27E-09 | 0.00 | 77 | -1.02 | 0.53 | 10.99 | 3.96 | 0.2 |
| 7.30E-09 | 0.11 | 12 | -1.04 | 0.22 | 2.17 | 0.38 | 92.4 |
| 7.37E-09 | 0.07 | 70 | -1.15 | 0.20 | 2.44 | 0.68 | 80 |
| 7.38E-09 | 0.18 | 10 | -0.92 | 0.37 | 2.24 | 0.56 | 98.3 |
| 7.38E-09 | 0.08 | 69 | -1.11 | 0.21 | 2.31 | 0.61 | 83.4 |
| 7.38E-09 | 0.07 | 67 | -1.15 | 0.21 | 2.46 | 0.69 | 83.3 |
| 7.42E-09 | 0.18 | 15 | -0.99 | 0.23 | 2.14 | 0.35 | 97.8 |
| 7.51E-09 | 0.14 | 66 | -1.03 | 0.21 | 2.13 | 0.40 | 95.3 |
| 7.51E-09 | 0.03 | 99 | -1.25 | 0.25 | 3.35 | 1.46 | 32.4 |
| 7.54E-09 | 0.08 | 13 | -1.16 | 0.20 | 2.47 | 0.79 | 81.9 |
| 7.65E-09 | 0.08 | 47 | -1.11 | 0.20 | 2.30 | 0.51 | 83.9 |
| 7.65E-09 | 0.03 | 18 | -1.22 | 0.25 | 2.99 | 1.19 | 43.7 |
| 7.66E-09 | 0.03 | 8 | -1.27 | 0.25 | 3.42 | 1.57 | 32.4 |
| 7.68E-09 | 0.01 | 72 | -1.33 | 0.31 | 5.85 | 2.56 | 5.1 |
| 7.69E-09 | 0.08 | 30 | -1.14 | 0.21 | 2.39 | 0.64 | 82.1 |
| 7.69E-09 | 0.19 | 90 | -0.99 | 0.21 | 2.00 | 0.00 | 97.7 |
| 7.72E-09 | 0.16 | 75 | -0.94 | 0.29 | 2.08 | 0.28 | 96.3 |
| 7.75E-09 | 0.01 | 47 | -1.31 | 0.35 | 7.82 | 3.34 | 0.9 |
| 7.81E-09 | 0.09 | 44 | -1.12 | 0.19 | 2.27 | 0.55 | 86.8 |
| 7.87E-09 | 0.11 | 7 | -1.06 | 0.21 | 2.23 | 0.51 | 89.3 |
| 7.93E-09 | 0.20 | 50 | -0.99 | 0.32 | 2.17 | 0.38 | 97.6 |
| 8.00E-09 | 0.01 | 81 | -1.34 | 0.34 | 6.96 | 2.99 | 2.8 |
| 8.01E-09 | 0.19 | 25 | -0.90 | 0.39 | 2.21 | 0.42 | 98.1 |
| 8.07E-09 | 0.11 | 65 | -1.08 | 0.20 | 2.17 | 0.44 | 89.1 |
| 8.14E-09 | 0.13 | 76 | -1.02 | 0.25 | 2.14 | 0.35 | 94.3 |
| 8.17E-09 | 0.08 | 23 | -1.14 | 0.22 | 2.43 | 0.73 | 78.5 |
| 8.18E-09 | 0.05 | 67 | -1.20 | 0.21 | 2.64 | 0.89 | 61.3 |
| 8.24E-09 | 0.02 | 74 | -1.28 | 0.25 | 3.58 | 1.64 | 25.3 |
| 8.27E-09 | 0.09 | 54 | -1.14 | 0.16 | 2.33 | 0.61 | 85.1 |
| 8.31E-09 | 0.08 | 64 | -1.12 | 0.25 | 2.42 | 0.80 | 82.8 |
| 8.31E-09 | 0.19 | 49 | -0.90 | 0.30 | 2.04 | 0.20 | 97.4 |
| 8.35E-09 | 0.19 | 37 | -0.84 | 0.40 | 2.07 | 0.26 | 97.2 |
| 8.41E-09 | 0.18 | 52 | -0.98 | 0.26 | 2.07 | 0.26 | 97.2 |
| 8.42E-09 | 0.17 | 75 | -0.97 | 0.28 | 2.14 | 0.35 | 97.1 |
| 8.43E-09 | 0.17 | 50 | -0.97 | 0.27 | 2.14 | 0.36 | 96.5 |
| 8.43E-09 | 0.20 | 54 | -0.92 | 0.25 | 2.10 | 0.30 | 96.9 |
| 8.45E-09 | 0.07 | 25 | -1.14 | 0.20 | 2.49 | 0.82 | 74.4 |
| 8.45E-09 | 0.19 | 93 | -1.00 | 0.26 | 2.06 | 0.25 | 96.9 |
| 8.46E-09 | 0.13 | 44 | -1.06 | 0.23 | 2.16 | 0.42 | 94.4 |
| 8.48E-09 | 0.07 | 80 | -1.14 | 0.21 | 2.40 | 0.72 | 78.3 |
| 8.51E-09 | 0.05 | 17 | -1.19 | 0.19 | 2.61 | 0.83 | 64.3 |
| 8.55E-09 | 0.18 | 45 | -0.89 | 0.38 | 2.13 | 0.34 | 97.7 |
| 8.60E-09 | 0.15 | 82 | -1.04 | 0.23 | 2.16 | 0.37 | 95 |
| 8.61E-09 | 0.11 | 73 | -1.09 | 0.23 | 2.29 | 0.56 | 89 |
| 8.63E-09 | 0.16 | 48 | -0.91 | 0.33 | 2.02 | 0.15 | 95.5 |
| 8.64E-09 | 0.06 | 10 | -1.20 | 0.21 | 2.64 | 0.89 | 66.2 |
| 8.74E-09 | 0.01 | 46 | -1.36 | 0.34 | 6.85 | 2.96 | 2.1 |
| 8.79E-09 | 0.00 | 3 | -0.96 | 0.48 | 13.71 | 4.39 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8.88E-09 | 0.03 | 34 | -1.29 | 0.24 | 3.49 | 1.51 | 30.1 |
| 8.88E-09 | 0.04 | 24 | -1.26 | 0.22 | 3.07 | 1.25 | 41.8 |
| 8.91E-09 | 0.12 | 80 | -1.05 | 0.26 | 2.28 | 0.66 | 91.4 |
| 8.92E-09 | 0.14 | 43 | -1.01 | 0.28 | 2.30 | 0.60 | 94.3 |
| 8.93E-09 | 0.11 | 5 | -1.08 | 0.20 | 2.24 | 0.48 | 87.4 |
| 8.98E-09 | 0.03 | 35 | -1.27 | 0.24 | 3.35 | 1.37 | 32.7 |
| 8.98E-09 | 0.12 | 71 | -0.99 | 0.28 | 2.16 | 0.39 | 90.5 |
| 8.99E-09 | 0.06 | 15 | -1.17 | 0.20 | 2.50 | 0.78 | 70.2 |
| 2.87E-09 | 0.17 | 51 | **NA** | **NA** | **NA** | **NA** | 100 |
| 4.71E-09 | 0.11 | 51 | **NA** | **NA** | **NA** | **NA** | 100 |
| 8.13E-09 | 0.09 | 55 | **NA** | **NA** | **NA** | **NA** | 100 |
| 2.26E-09 | 0.05 | 87 | **NA** | **NA** | **NA** | **NA** | 100 |
| 2.35E-09 | 0.16 | 46 | **NA** | **NA** | **NA** | **NA** | 100 |
| 1.28E-09 | 0.17 | 95 | **NA** | **NA** | **NA** | **NA** | 100 |
| 3.20E-09 | 0.16 | 31 | **NA** | **NA** | **NA** | **NA** | 100 |
| 3.32E-09 | 0.07 | 43 | **NA** | **NA** | **NA** | **NA** | 100 |
| 7.12E-09 | 0.05 | 13 | **NA** | **NA** | **NA** | **NA** | 100 |
| 8.34E-09 | 0.11 | 88 | **NA** | **NA** | **NA** | **NA** | 100 |
| 2.45E-09 | 0.19 | 51 | **NA** | **NA** | **NA** | **NA** | 100 |

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93    **NA** = Could NOT be estimated. Total of simulations were invariable genomes.