

Table S2. Number of times each proton track was sampled.

Energy [MeV]	Samples per track	Energy [MeV]	Samples per track	Energy [MeV]	Samples per track	Energy [MeV]	Samples per track	Energy [MeV]	Samples per track	Energy [MeV]	Samples per track
0.1	46429	7.5	3102	20.5	1255	36	776	54	513	84	500
0.2	17686	7.75	2995	21	1195	36.5	692	55	502	85	500
0.3	12457	8	2871	21.5	1172	37	689	56	469	86	500
0.5	6900	8.25	2947	22	1145	37.5	736	57	504	87	500
0.7	6900	8.5	2745	22.5	1099	38	721	58	528	88	500
1	6900	8.75	2854	23	1150	38.5	682	59	386	89	500
1.25	6900	9	2532	23.5	1165	39	715	60	500	90	500
1.5	6900	9.25	2652	24	1162	39.5	611	61	500	91	500
1.75	6900	9.5	2466	24.5	1033	40	634	62	500	92	500
2	6900	9.75	2572	25	1036	40.5	711	63	500	93	500
2.25	5418	10	2386	25.5	1065	41	617	64	500	94	500
2.5	5175	10.5	2282	26	969	41.5	641	65	500	95	500
2.75	5154	11	2038	26.5	930	42	655	66	500	96	500
3	4997	11.5	2022	27	1056	42.5	678	67	500	97	500
3.25	5854	12	2123	27.5	983	43	600	68	500	98	500
3.5	5805	12.5	1861	28	943	43.5	635	69	500	99	500
3.75	5125	13	1966	28.5	905	44	648	70	500	100	1042
4	5358	13.5	1800	29	884	44.5	610	71	500		
4.25	4951	14	1886	29.5	915	45	596	72	500		
4.5	4728	14.5	1626	30	845	45.5	550	73	500		
4.75	4512	15	1609	30.5	908	46	620	74	500		
5	4189	15.5	1630	31	833	46.5	607	74.55	386		
5.25	4081	16	1592	31.5	925	47	613	75	500		
5.5	3990	16.5	1361	32	822	47.5	558	76	500		
5.75	4230	17	1558	32.5	873	48	549	77	500		
6	3611	17.5	1422	33	815	48.5	589	78	500		
6.25	3657	18	1537	33.5	788	49	570	79	500		
6.5	3705	18.5	1362	34	860	50	582	80	500		
6.75	3341	19	1277	34.5	772	51	535	81	500		
7	3004	19.5	1295	35	736	52	525	82	500		
7.25	2874	20	1219	35.5	762	53	533	83	500		