

Available Beams

	Ion	Mass (amu)	A MeV	Total Energy (MeV)	Energy at Bragg Peak (MeV)	Range in Si (μm)	Range at Bragg (μm)	Range to Bragg Peak (μm)	Initial LET (vacuum)	Initial LET (air)	LET at Bragg Peak
15 A MeV	⁴ He	4.003	15	60	0.4	1423	2	1421	0.11	0.11	1.5
	¹⁴ N	14.003	15	210	7	428	7	421	1.3	1.3	6.7
	²⁰ Ne	19.992	15	300	14	316	8	308	2.5	2.6	9.6
	⁴⁰ Ar	39.962	15	599	29	229	9	220	7.7	8.0	20.1
	⁶³ Cu	62.930	15	944	90	172	16	156	17.8	18.7	34.0
	⁸⁴ Kr	83.912	15	1259	152	170	21	149	25.4	26.6	41.4
	¹⁰⁹ Ag	108.905	15	1634	248	156	26	130	38.5	40.3	54.8
	¹²⁹ Xe	128.905	15	1934	339	156	31	124	47.3	49.3	63.4
	¹⁴¹ Pr	140.908	15	2114	441	154	37	117	53.8	56.0	69.6
	¹⁶⁵ Ho	164.930	15	2474	608	156	44	112	64.3	66.7	79.2
	¹⁸¹ Ta	180.948	15	2714	702	155	46	109	72.2	74.8	86.4
¹⁹⁷ Au	196.967	15	2954	902	155	53	102	80.2	82.8	93.5	
25 A MeV	⁴ He	4.003	24.8	99	0.4	3449	2	3447	0.07	0.07	1.5
	¹⁴ N	14.003	24.8	347	7	1009	7	1002	0.9	0.9	6.7
	²² Ne	21.991	24.8	545	14	799	8	791	1.7	1.8	9.7
	⁴⁰ Ar	39.962	24.8	991	29	493	9	484	5.4	5.5	20.1
	⁸⁴ Kr	83.912	24.8	2081	152	332	21	311	19.3	19.8	41.4
	¹²⁹ Xe	128.905	24.8	3197	335	286	31	255	37.9	38.9	63.4
40 A MeV	¹⁴ N	14.003	40	560	7	2334	7	2327	0.6	0.6	6.7
	²⁰ Ne	19.992	40	800	14	1655	8	1647	1.2	1.2	9.7
	⁴⁰ Ar	39.962	40	1598	29	1079	9	1070	3.8	3.8	20.1
	⁷⁸ Kr	77.920	40	3117	140	622	20	602	14.2	14.4	41.4
	Proton	1.007	40	40	0.1	8148	1.2	8147	0.012	0.012	0.56