

本実験: $^{14}\text{N}+^6\text{Li}$		
反応	Q [MeV]	$E_{^6\text{Li}}^{\text{しきい}}$ [MeV]
$^{14}\text{N}(^6\text{Li},\gamma)^{20}\text{Ne}$	23.992	-34.296
$^{14}\text{N}(^6\text{Li},^6\text{Li})^{14}\text{N}$	0	0
$^{14}\text{N}(^6\text{Li},\alpha)^{16}\text{O}$	19.262	-27.534
$^{14}\text{N}(^6\text{Li},^8\text{Be})^{12}\text{C}$	12.008	-17.165
$^{14}\text{N}(^6\text{Li},\text{p})^{19}\text{F}$	11.148	-15.936
$^{14}\text{N}(^6\text{Li},\text{n})^{19}\text{Ne}$	7.127	-10.188
$^{14}\text{N}(^6\text{Li},^5\text{Li})^{15}\text{N}$	5.169	-7.390
$^{14}\text{N}(^6\text{Li},\text{d})^{18}\text{F}$	2.941	-4.203
$^{14}\text{N}(^6\text{Li},^3\text{He})^{17}\text{O}$	2.828	-4.042
$^{14}\text{N}(^6\text{Li},^5\text{He})^{15}\text{O}$	2.708	-3.871
$^{14}\text{N}(^6\text{Li},\text{t})^{17}\text{F}$	0.048	-0.069
$^{14}\text{N}(^6\text{Li},^7\text{Be})^{13}\text{C}$	-1.945	2.780
$^{14}\text{N}(^6\text{Li},^7\text{Li})^{13}\text{N}$	-3.303	4.722
$^{14}\text{N}(^6\text{Li},^9\text{B})^{11}\text{B}$	-4.134	5.909
$^{14}\text{N}(^6\text{Li},^6\text{Be})^{14}\text{C}$	-4.445	6.354
$^{14}\text{N}(^6\text{Li},^9\text{Be})^{11}\text{C}$	-5.048	7.217
$^{14}\text{N}(^6\text{Li},^{10}\text{B})^{10}\text{B}$	-7.152	10.223
$^{14}\text{N}(^6\text{Li},^6\text{He})^{14}\text{O}$	-8.651	12.366
$^{14}\text{N}(^6\text{Li},^{10}\text{Be})^{10}\text{C}$	-11.355	16.232

反応	Q [MeV]	$E_{6\text{Li}}^{\text{しきい}}$ [MeV]
$^{14}\text{N}(^6\text{Li},2\alpha)^{12}\text{C}$	12.100	-17.297
$^{14}\text{N}(^6\text{Li},p\alpha)^{15}\text{N}$	7.134	-10.198
$^{14}\text{N}(^6\text{Li},\alpha^8\text{Be})^8\text{Be}$	4.641	-6.635
$^{14}\text{N}(^6\text{Li},n\alpha)^{15}\text{O}$	3.598	-5.143
$^{14}\text{N}(^6\text{Li},2p)^{18}\text{O}$	3.154	-4.508
$^{14}\text{N}(^6\text{Li},pn)^{18}\text{F}$	0.716	-1.024
$^{14}\text{N}(^6\text{Li},pt)^{16}\text{O}$	-0.552	0.789
$^{14}\text{N}(^6\text{Li},n^3\text{He})^{16}\text{O}$	-1.316	1.881
$^{14}\text{N}(^6\text{Li},d\alpha)^{14}\text{N}$	-1.474	2.108
$^{14}\text{N}(^6\text{Li},pd)^{17}\text{O}$	-2.666	3.811
$^{14}\text{N}(^6\text{Li},^3\text{He}\alpha)^{13}\text{C}$	-3.531	5.048
$^{14}\text{N}(^6\text{Li},p^8\text{Be})^{11}\text{B}$	-3.949	5.645
$^{14}\text{N}(^6\text{Li},2n)^{18}\text{Ne}$	-4.500	6.432
$^{14}\text{N}(^6\text{Li},2d)^{16}\text{O}$	-4.585	6.554
$^{14}\text{N}(^6\text{Li},p^5\text{He})^{14}\text{N}$	-4.589	6.560
$^{14}\text{N}(^6\text{Li},p^5\text{Li})^{14}\text{C}$	-5.038	7.202
$^{14}\text{N}(^6\text{Li},p^7\text{Li})^{12}\text{C}$	-5.247	7.500
$^{14}\text{N}(^6\text{Li},n^5\text{Li})^{14}\text{N}$	-5.664	8.096
$^{14}\text{N}(^6\text{Li},t\alpha)^{13}\text{N}$	-5.770	8.249
$^{14}\text{N}(^6\text{Li},\alpha^5\text{Li})^{11}\text{B}$	-5.822	8.322
$^{14}\text{N}(^6\text{Li},nd)^{17}\text{F}$	-6.209	8.876
$^{14}\text{N}(^6\text{Li},n^8\text{Be})^{11}\text{C}$	-6.714	9.597
$^{14}\text{N}(^6\text{Li},n^7\text{Be})^{12}\text{C}$	-6.891	9.851
$^{14}\text{N}(^6\text{Li},\alpha^5\text{He})^{11}\text{C}$	-7.512	10.738
$^{14}\text{N}(^6\text{Li},p^6\text{Li})^{13}\text{C}$	-7.551	10.793
$^{14}\text{N}(^6\text{Li},^3\text{He}^5\text{He})^{12}\text{C}$	-9.368	13.391
$^{14}\text{N}(^6\text{Li},t^5\text{Li})^{12}\text{C}$	-9.679	13.836
$^{14}\text{N}(^6\text{Li},d^6\text{Li})^{12}\text{C}$	-10.272	14.684
$^{14}\text{N}(^6\text{Li},n^5\text{He})^{14}\text{O}$	-10.514	15.030
$^{14}\text{N}(^6\text{Li},n^6\text{Li})^{13}\text{N}$	-10.553	15.086
$^{14}\text{N}(^6\text{Li},p^3\text{He})^{16}\text{N}$	-10.954	15.658
$^{14}\text{N}(^6\text{Li},d^5\text{Li})^{13}\text{C}$	-10.990	15.710
$^{14}\text{N}(^6\text{Li},d^3\text{He})^{15}\text{N}$	-11.219	16.037
$^{14}\text{N}(^6\text{Li},\alpha^6\text{Li})^{10}\text{B}$	-11.612	16.599

反応	Q [MeV]	$E_{6\text{Li}}^{\text{しきい}}$ [MeV]
$^{14}\text{N}(^6\text{Li},3\alpha)^8\text{Be}$	4.733	-6.766
$^{14}\text{N}(^6\text{Li},2\text{p}\alpha)^{14}\text{C}$	-3.073	4.393
$^{14}\text{N}(^6\text{Li},\text{p}\text{n}\alpha)^{14}\text{N}$	-3.699	5.287
$^{14}\text{N}(^6\text{Li},\text{p}2\alpha)^{11}\text{B}$	-3.857	5.514
$^{14}\text{N}(^6\text{Li},2\text{p}\text{n})^{17}\text{O}$	-4.891	6.991
$^{14}\text{N}(^6\text{Li},\text{n}2\alpha)^{11}\text{C}$	-6.622	9.466
$^{14}\text{N}(^6\text{Li},\text{p}\text{n}\text{d})^{16}\text{O}$	-6.809	9.734
$^{14}\text{N}(^6\text{Li},\text{p}\text{t}\alpha)^{12}\text{C}$	-7.714	11.027
$^{14}\text{N}(^6\text{Li},\text{p}2\text{n})^{17}\text{F}$	-8.434	12.056
$^{14}\text{N}(^6\text{Li},\text{n}^3\text{He}\alpha)^{12}\text{C}$	-8.478	12.119
$^{14}\text{N}(^6\text{Li},\text{p}\text{d}\alpha)^{13}\text{C}$	-9.025	12.901
$^{14}\text{N}(^6\text{Li},2\text{n}\alpha)^{14}\text{O}$	-9.624	13.758
$^{14}\text{N}(^6\text{Li},2\text{d}\alpha)^{12}\text{C}$	-11.747	16.792
$^{14}\text{N}(^6\text{Li},\text{n}\text{d}\alpha)^{13}\text{N}$	-12.028	17.193
$^{14}\text{N}(^6\text{Li},2\text{p}^5\text{He})^{13}\text{C}$	-12.139	17.353
$^{14}\text{N}(^6\text{Li},\text{p}\text{n}^6\text{Li})^{12}\text{C}$	-12.497	17.864
$^{14}\text{N}(^6\text{Li})5\alpha$	4.825	-6.897
$^{14}\text{N}(^6\text{Li},2\text{p}2\text{n})^{16}\text{O}$	-9.034	12.914
$^{14}\text{N}(^6\text{Li},2\text{p}\text{n}\alpha)^{13}\text{C}$	-11.249	16.081
$^{14}\text{N}(^6\text{Li},\text{p}3\alpha)^7\text{Li}$	-12.522	17.899

予備実験: $^{12}\text{C}+^6\text{Li}$		
反応	Q [MeV]	$E_{^6\text{Li}}$ [MeV]
$^{12}\text{C}(^6\text{Li},\gamma)^{18}\text{F}$	13.213	-19.835
$^{12}\text{C}(^6\text{Li},^6\text{Li})^{12}\text{C}$	0	0
$^{12}\text{C}(^6\text{Li},\alpha)^{14}\text{N}$	8.798	-13.207
$^{12}\text{C}(^6\text{Li},\text{p})^{17}\text{O}$	7.606	-11.418
$^{12}\text{C}(^6\text{Li},\text{d})^{16}\text{O}$	5.688	-8.538
$^{12}\text{C}(^6\text{Li},\text{n})^{17}\text{F}$	4.063	-6.100
$^{12}\text{C}(^6\text{Li},^5\text{Li})^{13}\text{C}$	-0.718	1.077
$^{12}\text{C}(^6\text{Li},^3\text{He})^{15}\text{N}$	-0.946	1.421
$^{12}\text{C}(^6\text{Li},^5\text{He})^{13}\text{N}$	-2.645	3.971
$^{12}\text{C}(^6\text{Li},^8\text{Be})^{10}\text{B}$	-2.906	4.363
$^{12}\text{C}(^6\text{Li},\text{t})^{15}\text{O}$	-3.719	5.583
$^{12}\text{C}(^6\text{Li},^9\text{Be})^9\text{B}$	-9.677	14.527
$^{12}\text{C}(^6\text{Li},^7\text{Be})^{11}\text{B}$	-10.351	15.539
$^{12}\text{C}(^6\text{Li},^7\text{Li})^{11}\text{C}$	-11.472	17.221
$^{12}\text{C}(^6\text{Li},\text{pn})^{16}\text{O}$	3.463	-5.199
$^{12}\text{C}(^6\text{Li},\text{p}\alpha)^{13}\text{C}$	1.247	-1.873
$^{12}\text{C}(^6\text{Li},\text{d}\alpha)^{12}\text{C}$	-1.474	2.213
$^{12}\text{C}(^6\text{Li},\text{n}\alpha)^{13}\text{N}$	-1.755	2.635
$^{12}\text{C}(^6\text{Li},2\alpha)^{10}\text{B}$	-2.814	4.225
$^{12}\text{C}(^6\text{Li},\text{p}^5\text{He})^{12}\text{C}$	-4.589	6.889
$^{12}\text{C}(^6\text{Li},\text{n}^5\text{Li})^{12}\text{C}$	-5.664	8.502
$^{12}\text{C}(^6\text{Li},2\text{p})^{16}\text{N}$	-6.175	9.270
$^{12}\text{C}(^6\text{Li},\text{p}\text{d})^{15}\text{N}$	-6.440	9.667
$^{12}\text{C}(^6\text{Li},\alpha^6\text{Li})^8\text{Be}$	-7.367	11.058
$^{12}\text{C}(^6\text{Li},\text{d})2^8\text{Be}$	-8.933	13.410
$^{12}\text{C}(^6\text{Li},\text{p}^8\text{Be})^9\text{Be}$	-9.492	14.249
$^{12}\text{C}(^6\text{Li},\text{nd})^{15}\text{O}$	-9.976	14.976
$^{12}\text{C}(^6\text{Li},\text{pt})^{14}\text{N}$	-11.016	16.537
$^{12}\text{C}(^6\text{Li},\text{p}^3\text{He})^{14}\text{C}$	-11.154	16.744
$^{12}\text{C}(^6\text{Li},\text{n}^8\text{Be})^9\text{B}$	-11.342	17.027
$^{12}\text{C}(^6\text{Li},\alpha^5\text{Li})^9\text{Be}$	-11.365	17.061
$^{12}\text{C}(^6\text{Li},\text{n}^3\text{He})^{14}\text{N}$	-11.780	17.683
$^{12}\text{C}(^6\text{Li},^3\text{He}\alpha)^{11}\text{B}$	-11.938	17.921

反応	Q [MeV]	$E_{6\text{Li}}^{\text{しきい}}$ [MeV]
$^{12}\text{C}(^6\text{Li,pn}\alpha)^{12}\text{C}$	-3.699	5.553
$^{12}\text{C}(^6\text{Li,3}\alpha)^6\text{Li}$	-7.275	10.921
$^{12}\text{C}(^6\text{Li,2pn})^{15}\text{N}$	-8.664	13.007
$^{12}\text{C}(^6\text{Li,d2}\alpha)^8\text{Be}$	-8.841	13.272
$^{12}\text{C}(^6\text{Li,p2}\alpha)^9\text{Be}$	-9.400	14.111
$^{12}\text{C}(^6\text{Li,pn})2^8\text{Be}$	-11.157	16.749
$^{12}\text{C}(^6\text{Li,n2}\alpha)^9\text{B}$	-11.251	16.889
$^{12}\text{C}(^6\text{Li,p}\alpha^5\text{He})^8\text{Be}$	-11.955	17.947
$^{12}\text{C}(^6\text{Li,d})4\alpha$	-8.749	13.134
$^{12}\text{C}(^6\text{Li,pn2}\alpha)^8\text{Be}$	-11.065	16.611
$^{12}\text{C}(^6\text{Li,p3}\alpha)^5\text{He}$	-11.864	17.809
$^{12}\text{C}(^6\text{Li,pn})4\alpha$	-10.974	16.473