

Fitting Tables : melamine

1 p target

p(d, p)d Q-value 0.00, E = 10, Ex = 0.00											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	6.2601e+00	1441	0.2	2.8568e-01	433.3	0.3	2.924e+04	277	365.4/213	1.72
0170	35.9	5.5201e+00	1266	0.2	3.1347e-01	486.1	0.4	3.479e+04	206	693.8/295	2.35
0171	40.9	4.7286e+00	1077	0.2	3.5055e-01	547.6	0.3	3.849e+04	207	1264/495	2.55
0172	45.9	3.9047e+00	874.2	0.2	4.0084e-01	638.3	0.3	5.695e+04	251	2821/495	5.70
0173	50.9	3.0650e+00	674.8	0.2	4.7117e-01	763.5	0.4	4.73e+04	267	3021/395	7.65
0174	55.9	2.2195e+00	478.9	0.4	5.7484e-01	967.6	0.4	3.677e+04	709	522.9/195	2.68
0175	60.9	1.3588e+00	273.4	0.6	7.4398e-01	1218	0.5	5.692e+04	769	280/245	1.14

2 ^{14}N target

$^{14}\text{N}(\text{d}, \text{d})^{14}\text{N}$ Q-value 0.00, E = 10, Ex = 0.00											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	9.5994e+00	2122	0.4	3.6133e-01	563.5	0.4	1.668e+04	659	350/192	1.82
0170	35.9	9.1020e+00	2093	0.8	3.6528e-01	571.4	1.3	2505	217.5	378.6/289	1.31
0171	40.9	8.9505e+01	2052	2.5	3.6978e-01	580.8	1.4	1148	335.3	286.9/273	1.05
0172	45.9	8.7853e+00	1998	1.6	3.7482e-01	590.9	0.6	1.143e+04	1236	360/290	1.24
0173	50.9	8.6085e+00	1985	0.7	3.8039e-01	598.2	0.7	1379	139.1	216.7/208	1.04
0174	55.9	8.4219e+00	1936	0.6	3.8647e-01	613.3	0.6	2158	153.8	526/372	1.41
0175	60.9	8.2277e+00	1888	0.6	3.9309e-01	627.6	0.6	4056	297.8	259.2/231	1.12
0176	60.9	8.2277e+00	1893	0.5	3.9309e-01	624	0.7	2362	185.0	251.2/206	1.22
0177	65.9	8.0278e+00	1844	0.4	4.0004e-01	636.4	0.5	4414	196.1	367.3/269	1.37
0178	70.9	7.8242e+00	1792	0.5	4.0746e-01	649.3	0.7	6517	280.2	229.4/192	1.19
0179	75.9	7.6190e+00	1741	0.5	4.1525e-01	662.3	1.3	5547	167.6	217.3/192	1.13
0180	80.9	7.4138e+00	1693	0.9	4.2338e-01	677.9	2.3	1513	105.0	248.1/218	1.14
0181	85.9	7.2105e+00	1642	0.7	4.3178e-01	693.3	1.4	2261	103.9	348/335	1.04
0183	90.9	7.0106e+00	1593	0.6	4.4040e-01	713.4	1.2	2400	64.2	350.4/288	1.22

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}$ Q-value 8.61, E = 10, Ex = 0.00											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0175	60.9	1.7189e+01	3974	3.1	1.2947e-01	190.9	20.5	245	31.5	68.22/71	0.96
0176	60.9	1.7189e+01	3978	3.3	1.2947e-01	161	101.6	154.1	28.1	46.72/56	0.83
0177	65.9	1.7000e+01	3930	1.8	1.3064e-01	172.8	15.2	254.5	19.0	76.1/88	0.86
0178	70.9	1.6805e+01	3884	2.0	1.3187e-01	182.3	14.5	263.3	22.1	76.13/86	0.89
0179	75.9	1.6607e+01	3836	1.5	1.3315e-01	147.8	82.0	240.5	17.7	60.23/77	0.78
0180	80.9	1.6407e+01	3790	1.5	1.3447e-01	184.2	36.8	262.2	18.3	80.49/81	0.99
0181	85.9	1.6206e+01	3742	1.0	1.3582e-01	182.9	6.2	364.4	19.9	99.56/87	1.14
0183	90.9	1.6007e+01	3697	0.8	1.3719e-01	177.5	5.8	457.8	21.7	126.1/103	1.22

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}, 1\text{st}, \text{Q-value } 8.61, \text{E} = 10, \text{Ex} = 5.27$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0176	60.9	1.2024e+01	2774	3.6	1.7262e-01	234.9	37.2	182.2	33.6	56.4/74	0.76
0177	65.9	1.1864e+01	2737	1.1	1.7447e-01	240	11.5	284	17.4	89.5/93	0.96
0178	70.9	1.1699e+01	2698	1.0	1.7641e-01	249.2	5.6	393.2	20.4	96.28/99	0.97
0179	75.9	1.1532e+01	2657	0.9	1.7844e-01	255.6	6.3	449.7	21.9	110.8/107	1.04
0180	80.9	1.1363e+01	2618	1.3	1.8054e-01	250.4	24.2	232	16.2	108.9/87	1.25
0181	85.9	1.1194e+01	2577	0.8	1.8296e-01	254.7	4.8	503.2	22.9	124.4/117	1.06
0183	90.9	1.1026e+01	2537	1.0	1.8488e-01	258.6	4.7	582.1	36.2	157.9/120	1.32

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}, 2\text{nd}, \text{Q-value } 8.61, \text{E} = 10, \text{Ex} = 5.30$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0170	35.9	1.2681e+01	2937	2.9	1.6545e-01	232.5	74.8	197.5	20.2	54.37/73	0.74
0171	40.9	1.2564e+01	2907	7.9	1.6669e-01	222.5	38.8	182	43.0	42.81/82	0.52
0172	45.9	1.2435e+01	2876	7.1	1.6806e-01	240.9	16.5	259	42.0	70.08/106	0.66
0173	50.9	1.2297e+01	2856	9.7	1.6957e-01	231.5	39.7	160	55.5	39.1/63	0.62
0174	55.9	1.2149e+01	2811	8.1	1.7120e-01	240.5	30.2	178	59.5	50.42/69	0.73
0175	60.9	1.1995e+01	2769	1.9	1.7296e-01	238.7	44.4	194.1	16.5	64.97/72	0.90

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}, 3\text{rd}, \text{Q-value } 8.61, \text{E} = 10, \text{Ex} = 6.32$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	1.1749e+01	2632	1.1	1.7582e-01	253.7	7.0	405.6	20.7	138.4/117	1.18
0170	35.9	1.1648e+01	2614	1.3	1.7703e-01	261.1	4.4	356.5	20.3	86.65/81	1.07
0171	40.9	1.1535e+01	2591	1.4	1.7841e-01	260.9	10.1	303.4	20.2	106.4/91	1.17
0172	45.9	1.1411e+01	2642	5.1	1.7994e-01	248.1	2.6	155.6	32.7	208.7/214	0.98
0173	50.9	1.1277e+01	2528	7.0	1.8163e-01	259.1	3.5	247	57.6	148.8/189	0.79
0177	65.9	1.0832e+01	2450	1.9	1.8749e-01	267.1	1.5	195.8	30.1	316.9/209	1.52
0181	85.9	1.0190e+01	2340	2.2	1.9672e-01	279.4	1.1	1490	93.0	293.4/191	1.54
0183	90.9	1.0030e+01	2299	2.1	1.9918e-01	285.5	1.2	1082	100.0	177.6/165	1.08

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}$, 4th, Q-value 8.61, E = 10, Ex = 7.16											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	1.0891e+01	2520	1.0	1.8670e-01	271.6	0.9	808.2	67.2	373.4/256	1.46
0170	35.9	1.0793e+01	2498	0.9	1.8803e-01	279.5	1.1	815	65.4	408.6/244	1.67
0171	40.9	1.0683e+01	2470	1.8	1.8955e-01	274.1	0.9	749.5	92.8	300.1/240	1.25
0172	45.9	1.0563e+01	2445	0.9	1.9124e-01	280.2	1.0	435.9	62.4	298.5/232	1.29
0173	50.9	1.0434e+01	2405	6.1	1.9310e-01	284.9	1.5	459.9	157.3	215.6/210	1.03
0174	55.9	1.0297e+01	2373	3.3	1.9512e-01	286.1	1.7	409.6	71.9	232.5/216	1.08
0175	60.9	1.0153e+01	2340	9.3	1.9728e-01	293.4	1.6	496.2	285.4	269.1/221	1.22
0176	60.9	1.0153e+01	2342	5.6	1.9728e-01	294.9	2.2	293.5	105.2	243.3/203	1.20
0177	65.9	1.0004e+01	2316	0.9	1.9958e-01	293.7	1.1	223.5	43.1	319.7/245	1.30
0178	70.9	9.8518e+00	2276	1.8	2.0129e-01	298	0.9	729.4	111.6	294.3/241	1.22
0179	75.9	9.6968e+00	2238	2.1	2.0451e-01	305.2	0.9	1004	144.4	270.3/258	1.05
0180	80.9	9.5407e+00	2200	2.2	2.0712e-01	303.3	1.1	551.3	89.6	303/233	1.30
0181	85.9	9.3847e+00	2169	0.7	2.0980e-01	311	0.7	2169	1.3	230/253	0.91
0183	90.9	9.2302e+00	2132	1.3	2.1252e-01	316	0.7	531.6	94.9	251.9/258	0.98

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}$, 5th, Q-value 8.61, E = 10, Ex = 7.30											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	1.0747e+01	2485	1.1	1.8866e-01	271.6	0.9	1217	78.5	373.4/256	1.46
0170	35.9	1.0650e+01	2463	0.9	1.9002e-01	279.5	1.1	1531	84.1	408.6/244	1.67
0171	40.9	1.0541e+01	2435	1.3	1.9156e-01	274.1	0.9	1369	111.3	300.1/240	1.25
0172	45.9	1.0421e+01	2409	0.9	1.9328e-01	280.2	1.0	1484	95.2	298.5/232	1.29
0173	50.9	1.0293e+01	2375	2.8	1.9517e-01	284.9	1.5	448.3	158.9	215.6/210	1.03
0174	55.9	1.0157e+01	2341	3.1	1.9723e-01	286.1	1.7	212.6	70.6	232.5/216	1.08
0175	60.9	1.0014e+01	2309	12.2	1.9943e-01	293.4	1.6	344.9	288.0	269.1/221	1.22
0176	60.9	1.0014e+01	2313	6.1	1.9943e-01	294.9	2.2	199.1	107.0	243.3/203	1.20
0177	65.9	9.8661e+00	2289	1.4	2.0176e-01	293.7	1.1	1089	56.7	319.7/245	1.30
0178	70.9	9.7145e+00	2242	1.8	2.0422e-01	298	0.9	1254	134.3	294.3/241	1.22
0179	75.9	9.5604e+00	2203	1.6	2.0679e-01	305.2	0.9	1742	182.7	270.3/258	1.05
0180	80.9	9.4053e+00	2166	1.2	2.0944e-01	303.3	1.1	1238	121.4	303/233	1.30
0181	85.9	9.2503e+00	2131	0.7	2.1216e-01	311	0.7	3433	172.9	230/253	0.91
0183	90.9	9.0968e+00	2095	0.7	2.1494e-01	316	0.7	3643	165.4	251.9/258	0.98

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}, 6\text{th}, \text{Q-value } 8.61, \text{E} = 10, \text{Ex} = 7.57$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	1.0470e+01	2417	0.5	1.9258e-01	271.6	0.9	1972	48.2	373.4/256	1.46
0170	35.9	1.0374e+01	2396	0.6	1.9398e-01	279.5	1.1	2184	53.0	408.6/244	1.67
0171	40.9	1.0266e+01	2372	0.7	1.9558e-01	274.1	0.9	1792	50.8	300.1/240	1.25
0172	45.9	1.0148e+01	2343	1.0	1.9736e-01	280.2	1.0	1595	56.1	298.5/232	1.29
0173	50.9	1.0210e+01	2313	1.2	1.9932e-01	284.9	1.5	892	36.6	215.6/210	1.03
0174	55.9	9.8864e+00	2278	1.1	2.0144e-01	286.1	1.7	719.9	30.4	232.5/216	1.08
0175	60.9	9.7453e+00	2242	0.8	2.0372e-01	293.4	1.6	993.1	34.6	269.1/221	1.22
0176	60.9	9.7453e+00	2242	1.2	2.0372e-01	294.9	2.2	657.3	29.5	243.3/203	1.20
0177	65.9	9.5992e+00	2209	0.8	2.0613e-01	293.7	1.1	1368	42.2	319.7/245	1.30
0178	70.9	9.4493e+00	2178	0.8	2.0868e-01	298	0.9	2013	59.7	294.3/241	1.22
0179	75.9	9.2971e+00	2144	1.1	2.1133e-01	305.2	0.9	2812	88.2	270.3/258	1.05
0180	80.9	9.1439e+00	2109	1.5	2.1408e-01	303.3	1.1	1376	63.4	303/233	1.30
0181	85.9	8.9909e+00	2070	1.2	2.1690e-01	311	0.7	2493	110.6	230/253	0.91
0183	90.9	8.8393e+00	2034	1.2	2.1978e-01	316	0.7	2397	104.2	251.9/258	0.98

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}, 7\text{th}, \text{Q-value } 8.61, \text{E} = 10, \text{Ex} = 8.31$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	9.9128e+00	2242	1.2	2.0432e-01	282	4.4	238.7	36.1	177.3/167	1.06
0170	35.9	9.6151e+00	2218	0.9	2.0587e-01	335.4	4.7	381.6	26.2	236.5/184	1.29
0171	40.9	9.5108e+00	2191	0.8	2.0763e-01	300.3	3.0	473.8	36.0	152/166	0.92
0172	45.9	9.3966e+00	2161	1.1	2.0959e-01	307.9	2.8	402.3	27.0	177.9/156	1.14
0173	50.9	9.2737e+00	2136	1.2	2.1175e-01	313.4	10.9	85.71	14.70	105.8/142	0.75
0178	70.9	8.7209e+00	1980	2.9	2.2209e-01	334.9	3.7	630.3	29.3	291.5/192	1.52
0179	75.9	8.5740e+00	1971	1.1	2.2502e-01	330.9	2.4	429.5	38.8	178.5/177	1.01
0180	80.9	8.4261e+00	1933	1.0	2.2806e-01	337.6	4.2	407.2	28.1	148.7/153	0.97
0181	85.9	8.2785e+00	1899	1.1	2.3119e-01	344.2	1.6	887.7	91.1	152.8/195	0.78
0183	90.9	8.1323e+00	1864	1.0	2.3437e-01	349.8	1.5	1025	84.2	144.8/174	0.83

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}, 8\text{th}, \text{Q-value } 8.61, \text{E} = 10, \text{Ex} = 8.57$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	9.4399e+00	2169	6.6	2.0844e-01	282	4.4	567.5	72.9	177.3/167	1.06
0171	40.9	9.2446e+00	2137	6.2	2.1227e-01	300.3	3.0	1503.9	50.0	152/166	0.92
0180	80.9	8.1732e+00	1878	2.5	2.3347e-01	337.6	4.2	130.7	21.4	148.7/153	0.97

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}, 9\text{th}, \text{Q-value } 8.61, \text{E} = 10, \text{Ex} = 9.05$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	8.9427e+00	2060	0.9	2.1781e-01	323.5	2.5	1387	169.3	187.6/137	1.37

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}, 10\text{th}, \text{Q-value } 8.61, \text{E} = 10, \text{Ex} = 9.15$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	8.8389e+00	2028	6.6	2.1979e-01	323.5	2.5	560.3	182.7	187.6/137	1.37
0171	40.9	8.6488e+00	1993	1.9	2.2352e-01	332.5	1.3	1314	136.4	199.3/182	1.09

$^{14}\text{N}(\text{d}, \text{p})^{15}\text{N}, 14\text{th}, \text{Q-value } 8.61, \text{E} = 10, \text{Ex} = 9.83$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	8.1303e+00	1856	1.2	2.3442e-01	346.4	0.7	4642	153.9	443.3/261	1.70
0170	35.9	8.0434e+00	1827	1.2	2.3636e-01	358.9	0.9	4173	144.2	280.7/239	1.17
0171	40.9	7.9464e+00	1800	2.3	2.3857e-01	356	0.8	2958	170.4	307.8/239	1.29
0172	45.9	7.8403e+00	1780	0.9	2.4103e-01	361.3	0.8	3421	125.8	301.9/242	1.25
0174	55.9	7.6054e+00	1722	0.9	2.4670e-01	372.6	1.2	2054	72.9	262.2/186	1.41

3 ^{12}C target

$^{12}\text{C(d,p)}^{13}\text{C}$ Q-value 2.72, E = 10, Ex = 0.00											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	1.2305e+01	2803	0.6	1.7138e-01	237.2	1.8	1092	45.1	188/158	1.19
0170	35.9	1.2015e+01	2775	0.7	1.7272e-01	254.6	4.1	712.7	34.6	126.5/105	1.20
0171	40.9	1.1883e+01	2745	0.8	1.7425e-01	240.7	3.5	452.1	40.1	99.47/131	0.76
0172	45.9	1.1738e+01	2709	1.2	1.7595e-01	248.1	2.6	472.8	30.8	208.7/214	0.96
0173	50.9	1.1582e+01	2673	1.3	1.7782e-01	259.1	3.5	382.6	27.1	148.8/189	0.79
0174	55.9	1.1417e+01	2630	1.0	1.7986e-01	258.8	3.7	377	35.5	163.2/205	0.80
0175	60.9	1.1244e+01	2590	0.8	1.8204e-01	262.5	2.2	674.9	38.6	247.3/205	1.21
0176	60.9	1.1244e+01	2594	0.9	1.8204e-01	260.2	3.8	478	44.1	145/186	0.77
0177	65.9	1.1066e+01	2549	0.7	1.8436e-01	267.1	1.5	1195	49.0	316.9/209	1.52
0178	70.9	1.0883e+01	2509	0.6	1.8680e-01	266.1	1.2	1478	68.1	265.2/214	1.24
0179	75.9	1.0697e+01	2464	0.7	1.8936e-01	272.9	1.2	1594	90.9	234.7/202	1.16
0180	80.9	1.0510e+01	2420	0.9	1.9200e-01	277	2.0	805.4	70.6	182.6/174	1.05
0181	85.9	1.0324e+01	2380	0.8	1.9472e-01	279.4	1.1	1144	90.0	293.4/191	1.54

$^{12}\text{C(d,p)}^{13}\text{C}_{1\text{st}}$, Q-value 2.72, E = 10, Ex = 3.09											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0170	35.9	8.8508e+00	2034	0.5	2.1956e-01	337.4	2.5	1979	51.0	393.1/215	1.83
0171	40.9	8.7343e+00	2016	1.0	2.2182e-01	332.5	1.3	988.2	135.0	199.3/182	1.09
0172	45.9	8.6071e+00	1974	0.5	2.2435e-01	327.9	2.2	2345	53.0	304.2/223	1.36
0173	50.9	8.4705e+00	1944	0.6	2.2714e-01	325.5	2.3	1324	41.9	161.4/172	0.94
0174	55.9	8.3260e+00	1905	0.7	2.3017e-01	333.7	4.0	1148	34.0	226.4/170	1.33
0175	60.9	8.1750e+00	1871	0.6	2.3343e-01	362.5	2.9	1447	43.7	186.8/189	0.99
0176	60.9	8.1750e+00	1875	0.7	2.3343e-01	342.5	5.2	934.5	30.7	152.3/129	1.18
0177	65.9	8.0192e+00	1839	0.6	2.3691e-01	352.6	1.6	1850	62.2	190.2/134	1.42
0178	70.9	7.8599e+00	1801	0.4	2.4057e-01	364.9	1.2	2712	57.3	314.3/184	1.71
0179	75.9	7.6987e+00	1764	0.4	2.4441e-01	364.5	1.7	3467	68.9	212.9/151	1.41
0180	80.9	7.5370e+00	1724	0.5	2.4840e-01	369.7	1.9	1959	53.4	171.2/143	1.20
0181	85.9	7.3716e+00	1688	0.4	2.5251e-01	376.8	0.8	4325	76.1	241/189	1.26
0183	90.9	7.2173e+00	1650	0.4	2.5672e-01	384.6	0.9	4043	75.7	263.6/194	1.36

$^{12}\text{C(d,p)}^{13}\text{C,2nd}$, Q-value 2.72, E = 10, Ex = 3.68											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	8.3393e+00	1926	0.8	2.2989e-01	346.4	0.7	301	38.9	443.3/261	1.70
0170	35.9	8.2379e+00	1900	0.9	2.3206e-01	358.9	0.9	258.4	35.9	280.7/239	1.17
0171	40.9	8.1248e+00	1874	0.8	2.3454e-01	356	0.8	251.5	39.9	307.8/239	1.29
0180	80.9	6.9637e+00	1597	3.0	2.6376e-01	403.6	1.1	689.9	192.1	189.3/189	1.00
0181	85.9	6.8081e+00	1563	1.0	2.6829e-01	412.1	0.7	1304	146.3	187/189	0.99
0183	90.9	6.6545e+00	1528	1.2	2.7293e-01	421.8	0.6	993.8	169.6	242.3/209	1.16

$^{12}\text{C(d,p)}^{13}\text{C,3rd}$, Q-value 2.72, E = 10, Ex = 3.85											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	8.1612e+00	1877	0.4	2.3373e-01	346.4	0.7	3897	133.6	443.3/261	1.70
0170	35.9	8.0606e+00	1854	0.4	2.3597e-01	358.9	0.9	3472	127.6	280.7/239	1.17
0171	40.9	7.9484e+00	1827	0.4	2.3852e-01	356	0.8	2618	139.6	307.8/239	1.29
0172	45.9	7.8259e+00	1797	0.5	2.4137e-01	361.3	0.8	1805	124.1	301.9/242	1.25
0173	50.9	7.6943e+00	1758	0.7	2.4452e-01	366.3	1.1	2345	62.8	322.5/237	1.36
0174	55.9	7.5554e+00	1737	1.1	2.4794e-01	372.6	1.2	386.3	61.3	262.2/186	1.41
0175	60.9	7.4103e+00	1690	0.7	2.5163e-01	382.2	1.1	2827	70.4	351.8/243	1.45
0176	60.9	7.4103e+00	1695	0.7	2.5163e-01	378	1.5	2148	46.5	226.4/187	1.21
0177	65.9	7.2606e+00	1662	0.6	2.5556e-01	384.2	0.9	4015	91.9	303.6/195	1.56
0178	70.9	7.1077e+00	1630	0.6	2.5971e-01	391.7	0.8	5589	170.8	319.5/195	1.64
0179	75.9	6.9530e+00	1593	1.0	2.6409e-01	395.9	1.1	3948	408.7	165.4/189	0.88
0180	80.9	6.7980e+00	1560	7.0	2.6859e-01	403.6	1.1	1699	1129.7	189.3/189	1.00
0181	85.9	6.6439e+00	1516	0.6	2.7325e-01	412.1	0.7	5338	177.2	1878/189	0.99
0183	90.9	6.4920e+00	1482	0.7	2.7803e-01	421.8	0.6	5907	240.5	242.3/209	1.16

$^{12}\text{C}(\text{d}, \text{p})^{13}\text{C}, 4\text{th}, \text{Q-value } 2.72, \text{E} = 10, \text{Ex} = 6.86$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0175	60.9	4.3046e+00	953.4	2.9	3.7462e-01	672.2	2.4	293.9	45.7	819.7/689	1.19
0176	60.9	4.3046e+00	959.3	17.1	3.7462e-01	640.7	1.9	1736	281.5	1035/887	1.17
0177	65.9	4.1813e+00	927.2	3.6	3.8230e-01	692.1	1.8	1344	315.7	642.3/589	1.09
0178	70.9	4.0559e+00	899.1	2.5	3.8230e-01	698.3	1.7	4610	205.5	785.6/671	1.17
0179	75.9	3.9295e+00	1857	2.0	3.9910e-01	718.2	1.9	1589	111.0	716.3/682	1.05
0180	80.9	3.8033e+00	823.6	2.8	4.0813e-01	726.9	2.9	1124	86.8	757.7/677	1.12
0181	85.9	3.6782e+00	804	2.2	4.1752e-01	773.6	1.7	1539	164.6	554.8/587	0.95
0183	90.9	3.5554e+00	775.3	8.7	4.2720e-01	789.9	1.7	7738	3468.6	578.8/539	1.07

$^{12}\text{C}(\text{d}, \text{p})^{13}\text{C}, 5\text{th}, \text{Q-value } 2.72, \text{E} = 10, \text{Ex} = 7.49$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0176	60.9	3.6255e+00	793.3	3.9	4.2161e-01	640.7	1.9	441.3	83.5	1035/887	1.17
0177	65.9	3.5081e+00	765.9	2.0	4.3106e-01	692.1	1.8	1074	138.0	642.3/589	1.09
0178	70.9	3.3887e+00	735	1.7	4.4114e-01	698.3	1.7	2152	183.9	785.6/671	1.17
0179	75.9	3.2684e+00	708.9	1.4	4.5181e-01	718.2	1.9	2303	372.5	716.3/682	1.05
0180	80.9	3.1483e+00	679.3	2.2	4.6303e-01	726.9	2.9	1770	319.6	757.7/677	1.12
0181	85.9	3.0293e+00	650	1.8	4.7474e-01	773.6	1.7	1587	164.5	554.8/587	0.95
0183	90.9	2.9125e+00	622.1	1.6	4.8687e-01	789.9	1.7	3143	512.0	578.8/539	1.07

$^{12}\text{C}(\text{d}, \text{p})^{13}\text{C}, 7\text{th}, \text{Q-value } 2.72, \text{E} = 10, \text{Ex} = 7.69$											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	3.9936e+00	889.2	4.9	3.9468e-01	596.5	2.3	8960	152.1	728.6/681	1.07

$^{12}\text{C}(\text{d}, \text{d})^{12}\text{C}$ Q-value 0.00, E = 10, Ex = 0.00											
run	deg	E - dE			dE			Events		χ^2/ndf	
		energy	channel	error	energy	channel	error	count	error		
0169	30.9	9.1706e+00	2090	1.6	3.6328e-01	563.5	0.4	1.122e+02	650	350/192	1.82
0170	35.9	9.0128e+00	2066	1.5	3.6791e-01	571.4	1.3	4203	228.2	378.6/289	1.31
0171	40.9	8.8375e+01	2030	2.1	3.7321e-01	580.8	1.4	3514	337.9	286.9/273	1.05
0172	45.9	8.6469e+00	1964	7.8	3.7917e-01	590.9	0.6	3514	1187.4	360/290	1.24
0173	50.9	8.4432e+00	1943	0.5	3.8577e-01	598.2	0.7	1.326e+04	332	216.7/208	1.04
0174	55.9	8.2290e+00	1891	0.5	3.9299e-01	613.3	0.6	1.429e+04	197	526/372	1.41
0175	60.9	8.0066e+00	1839	0.8	4.0080e-01	627.6	0.6	1.631e+04	483	259.2/231	1.12
0176	60.9	8.0066e+00	1850	0.9	4.0080e-01	624	0.7	1.249e+04	321	251.2/206	1.22
0177	65.9	7.7785e+00	1799	0.7	4.0917e-01	636.4	0.5	1.709e+04	268	367.3/269	1.37
0178	70.9	7.5470e+00	1735	1.2	4.1807e-01	649.3	0.7	8873	411.2	229.4/192	1.19
0179	75.9	7.3143e+00	1679	1.2	4.2744e-01	662.3	1.3	4125	221.2	217.3/192	1.13
0180	80.9	7.0826e+00	1629	3.7	4.3725e-01	677.9	2.3	1363	229.9	248.1/218	1.14
0181	85.9	6.8538e+00	1567	2.3	4.4742e-01	693.3	1.4	2554	122.7	348/335	1.04
0183	90.9	6.6297e+00	1504	0.9	4.5790e-01	713.4	1.2	2571	80.7	350.4/288	1.22