

Table 7

Proton and neutron separation energies of  $\Theta^+$ -hypernuclei on and just beyond the driplines using net charge both in Coulomb term and asymmetry term of BWMH

$p$ -drip			One beyond $p$ -drip			$n$ -drip			One beyond $n$ -drip		
$Z_c, N$	$S_p$ MeV	$S_n$ MeV	$Z_c, N$	$S_p$ MeV	$S_n$ MeV	$Z_c, N$	$S_p$ MeV	$S_n$ MeV	$Z_c, N$	$S_p$ MeV	$S_n$ MeV
2, 1	.200E+01	.363E+02	2, 0	-.465E+00	.755E+02	2, 8	.298E+02	.127E+01	2, 9	.320E+02	-.214E+01
3, 2	.130E+01	.267E+02	3, 1	-.306E+01	.385E+02	3, 10	.264E+02	.130E+01	3, 11	.283E+02	-.215E+01
4, 2	.106E-01	.304E+02	4, 1	-.367E+01	.406E+02	4, 12	.283E+02	.131E+01	4, 13	.301E+02	-.218E+01
5, 4	.232E+01	.208E+02	5, 3	-.937E+00	.240E+02	5, 14	.254E+02	.123E+01	5, 15	.271E+02	-.226E+01
6, 4	.193E+01	.238E+02	6, 3	-.107E+01	.269E+02	6, 16	.279E+02	.116E+01	6, 17	.294E+02	-.232E+01
7, 5	.151E+00	.200E+02	7, 4	-.241E+01	.264E+02	7, 18	.252E+02	.108E+01	7, 19	.265E+02	-.239E+01
8, 5	.466E+00	.224E+02	8, 4	-.195E+01	.289E+02	8, 20	.279E+02	.102E+01	8, 21	.292E+02	-.242E+01
9, 7	.645E+00	.182E+02	9, 6	-.149E+01	.236E+02	9, 22	.251E+02	.966E+00	9, 23	.263E+02	-.244E+01
10, 7	.132E+01	.203E+02	10, 6	-.735E+00	.258E+02	10, 24	.278E+02	.933E+00	10, 25	.289E+02	-.244E+01
11, 9	.847E+00	.172E+02	11, 8	-.993E+00	.222E+02	11, 26	.250E+02	.913E+00	11, 27	.260E+02	-.242E+01
12, 8	.467E-02	.240E+02	12, 7	-.184E+01	.241E+02	12, 28	.277E+02	.908E+00	12, 29	.287E+02	-.238E+01
13, 11	.889E+00	.166E+02	13, 10	-.739E+00	.213E+02	13, 32	.267E+02	.186E-01	13, 33	.276E+02	-.316E+01
14, 10	.456E+00	.229E+02	14, 9	-.118E+01	.224E+02	14, 34	.293E+02	.912E-01	14, 35	.302E+02	-.305E+01
15, 13	.838E+00	.162E+02	15, 12	-.627E+00	.206E+02	15, 36	.264E+02	.172E+00	15, 37	.272E+02	-.293E+01
16, 12	.722E+00	.221E+02	16, 11	-.748E+00	.212E+02	16, 38	.289E+02	.247E+00	16, 39	.297E+02	-.281E+01
17, 15	.727E+00	.159E+02	17, 14	-.606E+00	.202E+02	17, 40	.260E+02	.329E+00	17, 41	.267E+02	-.269E+01
18, 14	.862E+00	.215E+02	18, 13	-.471E+00	.204E+02	18, 42	.284E+02	.402E+00	18, 43	.291E+02	-.257E+01
19, 17	.577E+00	.157E+02	19, 16	-.647E+00	.198E+02	19, 44	.256E+02	.483E+00	19, 45	.262E+02	-.245E+01
20, 16	.913E+00	.210E+02	20, 15	-.307E+00	.197E+02	20, 48	.292E+02	.366E-03	20, 49	.299E+02	-.285E+01
21, 19	.399E+00	.155E+02	21, 18	-.733E+00	.195E+02	21, 50	.264E+02	.994E-01	21, 51	.270E+02	-.272E+01
22, 18	.897E+00	.206E+02	22, 17	-.226E+00	.192E+02	22, 52	.287E+02	.185E+00	22, 53	.292E+02	-.259E+01
23, 21	.200E+00	.153E+02	23, 20	-.852E+00	.193E+02	23, 54	.259E+02	.275E+00	23, 55	.264E+02	-.247E+01
24, 20	.830E+00	.203E+02	24, 19	-.210E+00	.187E+02	24, 56	.281E+02	.352E+00	24, 57	.286E+02	-.235E+01
25, 24	.946E+00	.170E+02	25, 23	-.146E-01	.152E+02	25, 60	.264E+02	.952E-02	25, 61	.269E+02	-.263E+01
26, 22	.724E+00	.200E+02	26, 21	-.244E+00	.184E+02	26, 62	.285E+02	.910E-01	26, 63	.290E+02	-.251E+01
27, 26	.658E+00	.170E+02	27, 25	-.241E+00	.151E+02	27, 64	.258E+02	.177E+00	27, 65	.263E+02	-.239E+01
28, 24	.585E+00	.198E+02	28, 23	-.319E+00	.181E+02	28, 66	.279E+02	.250E+00	28, 67	.284E+02	-.229E+01
29, 28	.367E+00	.169E+02	29, 27	-.478E+00	.151E+02	29, 68	.253E+02	.328E+00	29, 69	.257E+02	-.218E+01
30, 26	.420E+00	.195E+02	30, 25	-.427E+00	.178E+02	30, 72	.282E+02	.472E-01	30, 73	.286E+02	-.240E+01
31, 30	.735E-01	.169E+02	31, 29	-.723E+00	.150E+02	31, 74	.256E+02	.126E+00	31, 75	.260E+02	-.229E+01

Table 7 (continued)

32, 28	.235E+00	.194E+02	32, 27	-.563E+00	.176E+02	32, 76	.276E+02	.193E+00	32, 77	.279E+02	-.220E+01
33, 33	.530E+00	.135E+02	33, 32	-.221E+00	.169E+02	33, 78	.250E+02	.266E+00	33, 79	.254E+02	-.210E+01
34, 30	.313E-01	.192E+02	34, 29	-.721E+00	.174E+02	34, 82	.277E+02	.258E-01	34, 83	.281E+02	-.229E+01
35, 35	.196E+00	.136E+02	35, 34	-.517E+00	.168E+02	35, 84	.252E+02	.978E-01	35, 85	.256E+02	-.219E+01
36, 33	.526E+00	.157E+02	36, 32	-.186E+00	.190E+02	36, 86	.271E+02	.159E+00	36, 87	.275E+02	-.210E+01
37, 38	.526E+00	.155E+02	37, 37	-.135E+00	.136E+02	37, 88	.247E+02	.226E+00	37, 89	.251E+02	-.201E+01
38, 35	.261E+00	.156E+02	38, 34	-.416E+00	.189E+02	38, 92	.272E+02	.165E-01	38, 93	.275E+02	-.218E+01
39, 40	.167E+00	.156E+02	39, 39	-.463E+00	.137E+02	39, 94	.249E+02	.826E-01	39, 95	.252E+02	-.209E+01
40, 38	.617E+00	.174E+02	40, 37	-.108E-01	.156E+02	40, 96	.266E+02	.139E+00	40, 97	.269E+02	-.201E+01
41, 43	.417E+00	.126E+02	41, 42	-.187E+00	.156E+02	41, 98	.243E+02	.201E+00	41, 99	.246E+02	-.193E+01
42, 40	.311E+00	.174E+02	42, 39	-.288E+00	.156E+02	42, 102	.267E+02	.153E-01	42, 103	.270E+02	-.207E+01
43, 45	.427E-01	.127E+02	43, 44	-.536E+00	.157E+02	43, 104	.244E+02	.763E-01	43, 105	.247E+02	-.199E+01
44, 42	.330E-02	.174E+02	44, 41	-.570E+00	.155E+02	44, 106	.261E+02	.129E+00	44, 107	.264E+02	-.192E+01
45, 48	.215E+00	.147E+02	45, 47	-.325E+00	.128E+02	45, 108	.239E+02	.187E+00	45, 109	.242E+02	-.184E+01
46, 45	.247E+00	.144E+02	46, 44	-.306E+00	.173E+02	46, 112	.261E+02	.198E-01	46, 113	.264E+02	-.198E+01
47, 51	.355E+00	.120E+02	47, 50	-.168E+00	.148E+02	47, 114	.240E+02	.767E-01	47, 115	.242E+02	-.190E+01
48, 48	.431E+00	.163E+02	48, 47	-.853E-01	.144E+02	48, 116	.256E+02	.126E+00	48, 117	.259E+02	-.183E+01
49, 54	.450E+00	.140E+02	49, 53	-.400E-01	.121E+02	49, 118	.235E+02	.180E+00	49, 119	.238E+02	-.176E+01
50, 50	.809E-01	.163E+02	50, 49	-.416E+00	.145E+02	50, 122	.256E+02	.288E-01	50, 123	.258E+02	-.188E+01
51, 56	.454E-01	.141E+02	51, 55	-.427E+00	.123E+02	51, 124	.235E+02	.822E-01	51, 125	.238E+02	-.181E+01
52, 53	.216E+00	.136E+02	52, 52	-.266E+00	.163E+02	52, 126	.251E+02	.129E+00	52, 127	.253E+02	-.175E+01
53, 59	.110E+00	.116E+02	53, 58	-.351E+00	.142E+02	53, 128	.231E+02	.180E+00	53, 129	.233E+02	-.169E+01
54, 56	.309E+00	.155E+02	54, 55	-.145E+00	.137E+02	54, 132	.250E+02	.416E-01	54, 133	.253E+02	-.180E+01
55, 62	.140E+00	.135E+02	55, 61	-.294E+00	.117E+02	55, 134	.231E+02	.917E-01	55, 135	.233E+02	-.173E+01
56, 59	.379E+00	.129E+02	56, 58	-.635E-01	.155E+02	56, 136	.246E+02	.136E+00	56, 137	.248E+02	-.167E+01
57, 65	.155E+00	.112E+02	57, 64	-.269E+00	.136E+02	57, 140	.230E+02	.129E-01	57, 141	.233E+02	-.177E+01
58, 62	.414E+00	.148E+02	58, 61	-.250E-02	.130E+02	58, 142	.245E+02	.571E-01	58, 143	.247E+02	-.171E+01
59, 68	.142E+00	.131E+02	59, 67	-.258E+00	.113E+02	59, 144	.226E+02	.105E+00	59, 145	.228E+02	-.165E+01
60, 64	.259E-01	.149E+02	60, 63	-.378E+00	.131E+02	60, 146	.240E+02	.147E+00	60, 147	.242E+02	-.160E+01
61, 71	.119E+00	.108E+02	61, 70	-.274E+00	.132E+02	61, 150	.226E+02	.328E-01	61, 151	.228E+02	-.169E+01
62, 67	.398E-01	.125E+02	62, 66	-.356E+00	.149E+02	62, 152	.240E+02	.750E-01	62, 153	.242E+02	-.164E+01
63, 74	.724E-01	.127E+02	63, 73	-.299E+00	.110E+02	63, 154	.221E+02	.120E+00	63, 155	.223E+02	-.158E+01
64, 70	.267E-01	.143E+02	64, 69	-.348E+00	.126E+02	64, 158	.239E+02	.977E-02	64, 159	.241E+02	-.167E+01
65, 77	.183E-01	.105E+02	65, 76	-.347E+00	.128E+02	65, 160	.221E+02	.543E-01	65, 161	.223E+02	-.161E+01
66, 73	.330E-02	.121E+02	66, 72	-.365E+00	.144E+02	66, 162	.234E+02	.946E-01	66, 163	.236E+02	-.156E+01

Table 7 (continued)

67, 81	.296E+00	.101E+02	67, 80	-.551E-01	.124E+02	67,164	.216E+02	.138E+00	67,165	.218E+02	-.151E+01
68, 77	.311E+00	.116E+02	68, 76	-.425E-01	.139E+02	68,168	.234E+02	.345E-01	68,169	.235E+02	-.159E+01
69, 84	.200E+00	.120E+02	69, 83	-.134E+00	.103E+02	69,170	.216E+02	.770E-01	69,171	.218E+02	-.154E+01
70, 80	.240E+00	.134E+02	70, 79	-.958E-01	.117E+02	70,172	.229E+02	.116E+00	70,173	.231E+02	-.149E+01
71, 87	.100E+00	.994E+01	71, 86	-.229E+00	.121E+02	71,176	.215E+02	.217E-01	71,177	.217E+02	-.157E+01
72, 83	.163E+00	.113E+02	72, 82	-.168E+00	.135E+02	72,178	.228E+02	.599E-01	72,179	.230E+02	-.152E+01
73, 91	.303E+00	.962E+01	73, 90	-.139E-01	.117E+02	73,180	.211E+02	.101E+00	73,181	.213E+02	-.147E+01
74, 86	.704E-01	.130E+02	74, 85	-.245E+00	.114E+02	74,184	.227E+02	.903E-02	74,185	.229E+02	-.154E+01
75, 94	.172E+00	.114E+02	75, 93	-.130E+00	.978E+01	75,186	.210E+02	.493E-01	75,187	.212E+02	-.149E+01
76, 90	.278E+00	.126E+02	76, 89	-.266E-01	.110E+02	76,188	.223E+02	.861E-01	76,189	.225E+02	-.145E+01
77, 97	.400E-01	.949E+01	77, 96	-.259E+00	.115E+02	77,192	.209E+02	.208E-02	77,193	.211E+02	-.152E+01
78, 93	.163E+00	.107E+02	78, 92	-.138E+00	.128E+02	78,194	.222E+02	.386E-01	78,195	.224E+02	-.147E+01
79,101	.186E+00	.922E+01	79,100	-.103E+00	.112E+02	79,196	.205E+02	.771E-01	79,197	.207E+02	-.143E+01
80, 96	.364E-01	.124E+02	80, 95	-.251E+00	.108E+02	80,198	.218E+02	.112E+00	80,199	.219E+02	-.138E+01
81,104	.300E-01	.109E+02	81,103	-.247E+00	.938E+01	81,202	.205E+02	.328E-01	81,203	.206E+02	-.145E+01
82,100	.186E+00	.121E+02	82, 99	-.923E-01	.105E+02	82,204	.217E+02	.679E-01	82,205	.218E+02	-.140E+01
83,108	.142E+00	.107E+02	83,107	-.126E+00	.914E+01	83,206	.201E+02	.105E+00	83,207	.202E+02	-.136E+01