

Table 5

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

$p$ -drip			$n$ -drip			One beyond			One beyond		
$Z_c, N$	$S_p$ 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
Not found	—	—	2, 6	.364E+02	.657E+00	2, 7	.384E+02	-.265E+01	2, 7	.384E+02	-.265E+01
Not found	—	—	3, 8	.310E+02	.604E+00	3, 9	.310E+02	-.276E+01	3, 9	.329E+02	-.276E+01
Not found	—	—	4, 10	.317E+02	.627E+00	4, 11	.317E+02	-.279E+01	4, 11	.335E+02	-.279E+01
5, 1	.188E+00	.298E+02	5, 12	.439E+02	.576E+00	5, 13	.283E+02	-.300E+02	5, 13	.300E+02	-.287E+01
6, 2	.263E+01	.269E+02	6, 14	.325E+02	.544E+00	6, 15	.304E+02	-.319E+02	6, 15	.319E+02	-.291E+01
7, 3	.893E+00	.221E+02	7, 16	.184E+01	.296E+02	7, 17	.274E+02	-.288E+02	7, 17	.288E+02	-.296E+01
8, 3	.878E+00	.246E+02	8, 18	.167E+01	.321E+02	8, 19	.299E+02	-.312E+02	8, 19	.312E+02	-.298E+01
9, 5	.131E+01	.193E+02	9, 20	.965E+00	.251E+02	9, 21	.269E+02	-.282E+02	9, 21	.282E+02	-.299E+01
10, 5	.176E+01	.214E+02	10, 22	.422E+00	.273E+02	10, 23	.296E+02	-.307E+02	10, 23	.307E+02	-.297E+01
11, 7	.147E+01	.178E+02	11, 24	.477E+00	.230E+02	11, 25	.266E+02	-.277E+02	11, 25	.277E+02	-.294E+01
12, 6	.366E+00	.249E+02	12, 26	.158E+01	.254E+02	12, 27	.293E+02	-.303E+02	12, 27	.303E+02	-.288E+01
13, 9	.148E+01	.170E+02	13, 28	.228E+00	.218E+02	13, 29	.264E+02	-.273E+02	13, 29	.273E+02	-.282E+01
14, 8	.850E+00	.235E+02	14, 7	.871E+00	.232E+02	14, 31	.290E+02	-.274E+01	14, 31	.299E+02	-.274E+01
15, 11	.141E+01	.164E+02	15, 10	.124E+00	.210E+02	15, 33	.261E+02	-.265E+01	15, 33	.270E+02	-.265E+01
16, 10	.114E+01	.225E+02	16, 9	.404E+00	.218E+02	16, 35	.287E+02	-.257E+01	16, 35	.295E+02	-.257E+01
17, 13	.128E+01	.161E+02	17, 12	.113E+00	.204E+02	17, 36	.258E+02	-.247E+01	17, 36	.266E+02	-.247E+01
18, 12	.129E+01	.218E+02	18, 11	.104E+00	.208E+02	18, 40	.298E+02	-.299E+01	18, 40	.305E+02	-.299E+01
19, 15	.111E+01	.158E+02	19, 14	.163E+00	.200E+02	19, 42	.268E+02	-.286E+01	19, 42	.275E+02	-.286E+01
20, 13	.756E-01	.200E+02	20, 12	.121E+01	.245E+02	20, 44	.292E+02	-.273E+01	20, 44	.299E+02	-.273E+01
21, 17	.915E+00	.156E+02	21, 16	.257E+00	.196E+02	21, 46	.263E+02	-.260E+01	21, 46	.270E+02	-.260E+01
22, 15	.167E+00	.194E+02	22, 14	.102E+01	.237E+02	22, 48	.287E+02	-.249E+01	22, 48	.293E+02	-.249E+01
23, 19	.703E+00	.154E+02	23, 18	.384E+00	.194E+02	23, 50	.259E+02	-.237E+01	23, 50	.265E+02	-.237E+01
24, 17	.190E+00	.189E+02	24, 16	.906E+00	.231E+02	24, 54	.292E+02	-.269E+01	24, 54	.298E+02	-.269E+01
25, 21	.477E+00	.153E+02	25, 20	.536E+00	.191E+02	25, 56	.265E+02	-.257E+01	25, 56	.270E+02	-.257E+01
26, 19	.161E+00	.185E+02	26, 18	.858E+00	.225E+02	26, 58	.286E+02	-.245E+01	26, 58	.291E+02	-.245E+01
27, 23	.240E+00	.152E+02	27, 22	.708E+00	.189E+02	27, 60	.259E+02	-.233E+01	27, 60	.264E+02	-.233E+01
28, 21	.894E-01	.182E+02	28, 20	.863E+00	.221E+02	28, 62	.280E+02	-.223E+01	28, 62	.285E+02	-.223E+01
29, 26	.864E+00	.169E+02	29, 25	.577E-02	.151E+02	29, 66	.263E+02	-.247E+01	29, 66	.267E+02	-.247E+01
30, 24	.856E+00	.196E+02	30, 23	.167E-01	.179E+02	30, 68	.283E+02	-.236E+01	30, 68	.288E+02	-.236E+01
31, 28	.560E+00	.169E+02	31, 27	.258E+00	.150E+02	31, 70	.257E+02	-.226E+01	31, 70	.262E+02	-.226E+01

Table 5 (continued)

32, 26	.669E+00	.194E+02	32, 25	-.151E+00	.177E+02	32, 72	.277E+02	273E+00	32, 73	.281E+02	-216E+01
33, 30	.255E+00	.168E+02	33, 29	-.517E+00	.150E+02	33, 76	.260E+02	.227E+01	33, 77	.264E+02	-236E+01
34, 28	.464E+00	.192E+02	34, 27	-.309E+00	.174E+02	34, 78	.279E+02	.896E-01	34, 79	.283E+02	-226E+01
35, 33	.682E+00	.135E+02	35, 32	-.490E-01	.168E+02	35, 80	.254E+02	.161E+00	35, 81	.258E+02	-216E+01
36, 30	.244E+00	.191E+02	36, 29	-.487E+00	.173E+02	36, 82	.273E+02	.223E+00	36, 83	.277E+02	-208E+01
37, 35	.341E+00	.136E+02	37, 34	-.353E+00	.168E+02	37, 86	.256E+02	.659E-02	37, 87	.259E+02	-225E+01
38, 32	.116E-01	.189E+02	38, 31	-.681E+00	.171E+02	38, 88	.274E+02	.679E-01	38, 89	.278E+02	-216E+01
39, 37	.409E-02	.136E+02	39, 36	-.657E+00	.168E+02	39, 90	.251E+02	.134E+00	39, 91	.254E+02	-207E+01
40, 35	.429E+00	.156E+02	40, 34	-.231E+00	.188E+02	40, 92	.269E+02	.190E+00	40, 93	.272E+02	-199E+01
41, 40	.285E+00	.156E+02	41, 39	-.330E+00	.137E+02	41, 96	.252E+02	.549E-03	41, 97	.255E+02	-214E+01
42, 37	.147E+00	.155E+02	42, 36	-.481E+00	.187E+02	42, 98	.269E+02	.572E-01	42, 99	.272E+02	-206E+01
43, 43	.518E+00	.126E+02	43, 42	-.724E-01	.156E+02	43, 100	.246E+02	.118E+00	43, 101	.249E+02	-198E+01
44, 40	.447E+00	.174E+02	44, 39	-.138E+00	.155E+02	44, 102	.264E+02	.171E+00	44, 103	.266E+02	-191E+01
45, 45	.141E+00	.127E+02	45, 44	-.425E+00	.157E+02	45, 106	.247E+02	.159E-02	45, 107	.250E+02	-204E+01
46, 42	.133E+00	.173E+02	46, 41	-.427E+00	.155E+02	46, 108	.264E+02	.544E-01	46, 109	.266E+02	-197E+01
47, 48	.300E+00	.147E+02	47, 47	-.229E+00	.128E+02	47, 110	.242E+02	.111E+00	47, 111	.245E+02	-189E+01
48, 45	.358E+00	.144E+02	48, 44	-.182E+00	.173E+02	48, 112	.258E+02	.161E+00	48, 113	.261E+02	-182E+01
49, 51	.429E+00	.120E+02	49, 50	-.837E-01	.148E+02	49, 116	.242E+02	.806E-02	49, 117	.245E+02	-195E+01
50, 47	.224E-01	.144E+02	50, 46	-.497E+00	.173E+02	50, 118	.258E+02	.576E-01	50, 119	.261E+02	-188E+01
51, 53	.333E-01	.122E+02	51, 52	-.461E+00	.149E+02	51, 120	.237E+02	.111E+00	51, 121	.240E+02	-181E+01
52, 50	.175E+00	.163E+02	52, 49	-.312E+00	.145E+02	52, 122	.253E+02	.158E+00	52, 123	.256E+02	-175E+01
53, 56	.110E+00	.141E+02	53, 55	-.354E+00	.123E+02	53, 126	.238E+02	.187E-01	53, 127	.240E+02	-186E+01
54, 53	.299E+00	.136E+02	54, 52	-.175E+00	.163E+02	54, 128	.253E+02	.654E-01	54, 129	.255E+02	-179E+01
55, 59	.166E+00	.116E+02	55, 58	-.286E+00	.142E+02	55, 130	.233E+02	.116E+00	55, 131	.235E+02	-173E+01
56, 56	.381E+00	.155E+02	56, 55	-.641E-01	.137E+02	56, 132	.248E+02	.160E+00	56, 133	.250E+02	-167E+01
57, 62	.189E+00	.135E+02	57, 61	-.237E+00	.118E+02	57, 136	.233E+02	.326E-01	57, 137	.235E+02	-177E+01
58, 58	.781E-02	.155E+02	58, 57	-.423E+00	.137E+02	58, 138	.248E+02	.769E-01	58, 139	.250E+02	-171E+01
59, 65	.199E+00	.112E+02	59, 64	-.218E+00	.137E+02	59, 140	.228E+02	.125E+00	59, 141	.230E+02	-165E+01
60, 61	.606E-01	.130E+02	60, 60	-.360E+00	.156E+02	60, 144	.247E+02	.208E-02	60, 145	.249E+02	-175E+01
61, 68	.181E+00	.131E+02	61, 67	-.213E+00	.113E+02	61, 146	.228E+02	.492E-01	61, 147	.230E+02	-169E+01
62, 64	.820E-01	.149E+02	62, 63	-.315E+00	.131E+02	62, 148	.242E+02	.914E-01	62, 149	.244E+02	-164E+01
63, 71	.153E+00	.108E+02	63, 70	-.234E+00	.132E+02	63, 150	.223E+02	.137E+00	63, 151	.226E+02	-158E+01
64, 67	.896E-01	.125E+02	64, 66	-.300E+00	.149E+02	64, 154	.241E+02	.229E-01	64, 155	.243E+02	-167E+01
65, 74	.102E+00	.127E+02	65, 73	-.264E+00	.110E+02	65, 156	.223E+02	.679E-01	65, 157	.225E+02	-161E+01
66, 70	.714E-01	.143E+02	66, 69	-.298E+00	.126E+02	66, 158	.237E+02	.108E+00	66, 159	.239E+02	-156E+01

Table 5 (continued)

67, 77	.448E-01	.106E+02	67, 76	-.316E+00	.128E+02	67,162	.223E+02	.537E-02	67,163	.224E+02	-.165E+01
68, 73	.430E-01	.121E+02	68, 72	-.320E+00	.144E+02	68,164	.236E+02	.454E-01	68,165	.238E+02	-.160E+01
69, 81	.314E+00	.102E+02	69, 80	-.315E-01	.124E+02	69,166	.218E+02	.880E-01	69,167	.220E+02	-.154E+01
70, 77	.342E+00	.116E+02	70, 76	-.684E-02	.139E+02	70,168	.232E+02	.127E+00	70,169	.233E+02	-.149E+01
71, 84	.216E+00	.120E+02	71, 83	-.113E+00	.103E+02	71,172	.218E+02	.304E-01	71,173	.219E+02	-.157E+01
72, 80	.268E+00	.134E+02	72, 79	-.640E-01	.117E+02	72,174	.231E+02	.688E-01	72,175	.233E+02	-.152E+01
73, 87	.115E+00	.998E+01	73, 86	-.210E+00	.121E+02	73,176	.213E+02	.110E+00	73,177	.215E+02	-.147E+01
74, 83	.188E+00	.113E+02	74, 82	-.139E+00	.135E+02	74,180	.230E+02	.157E-01	74,181	.232E+02	-.155E+01
75, 91	.312E+00	.967E+01	75, 90	-.122E-02	.118E+02	75,182	.213E+02	.562E-01	75,183	.214E+02	-.150E+01
76, 86	.923E-01	.131E+02	76, 85	-.219E+00	.114E+02	76,184	.226E+02	.930E-01	76,185	.227E+02	-.145E+01
77, 94	.180E+00	.114E+02	77, 93	-.119E+00	.982E+01	77,188	.212E+02	.708E-02	77,189	.214E+02	-.152E+01
78, 90	.294E+00	.127E+02	78, 89	-.720E-02	.111E+02	78,190	.225E+02	.436E-01	78,191	.226E+02	-.148E+01
79, 97	.463E-01	.953E+01	79, 96	-.250E+00	.116E+02	79,192	.208E+02	.824E-01	79,193	.209E+02	-.143E+01
80, 93	.177E+00	.107E+02	80, 92	-.120E+00	.128E+02	80,194	.220E+02	.118E+00	80,195	.222E+02	-.139E+01
81,101	.188E+00	.927E+01	81,100	-.980E-01	.113E+02	81,198	.207E+02	.366E-01	81,199	.209E+02	-.145E+01
82, 96	.487E-01	.124E+02	82, 95	-.236E+00	.109E+02	82,200	.219E+02	.717E-01	82,201	.221E+02	-.141E+01
83,104	.313E-01	.110E+02	83,103	-.243E+00	.943E+01	83,202	.203E+02	.109E+00	83,203	.205E+02	-.137E+01