

Table 8

Effects of negatively charged  $\Xi^-$  and positively  $\Theta^+$  hyperon on the dripline nuclei are shown in the following table using the proton number in the symmetry term of BW/MH. One-nucleon separation energies (in MeV) are listed on driplines for each element with the lowest and highest number of bound neutrons in  $\Xi^-$  and  $\Theta^+$  hypernuclei

At. No	$\Xi^-$		$\Theta^+$ -Hyper		At. No	$\Xi^-$		$\Theta^+$ -Hyper		$\Xi^-$ $n$ -drip	$\Theta^+$ -Hyper		$\Xi^-$ $p$ -drip	$\Theta^+$ -Hyper	
	$p$ -drip	$n$ -drip	$p$ -drip	$n$ -drip		$p$ -drip	$n$ -drip	$p$ -drip	$n$ -drip		$p$ -drip	$n$ -drip			
Z	$N, S_p$	$N, S_n$	$N, S_p$	$N, S_n$	Z	$N, S_p$	$N, S_n$	$N, S_p$	$N, S_n$	$N, S_p$	$N, S_n$	$N, S_p$	$N, S_n$	$N, S_p$	$N, S_n$
4	1, 2.16	12, .13	2, 3.17	10, 1.90	5	2, .72	14, .11	3, 1.82	12, 1.78						
6	2, .20	16, .10	3, 1.26	16, .01	7	4, 1.33	18, .08	5, 2.36	18, .02						
8	4, 1.43	20, .08	5, 2.44	20, .04	9	6, 1.63	22, .08	6, .35	22, .06						
10	5, .03	24, .10	6, .94	24, .09	11	8, 1.72	26, .12	8, .61	26, .12						
12	7, .71	28, .16	8, 1.50	28, .17	13	9, .01	30, .21	10, .69	30, .22						
14	9, 1.13	32, .26	9, .16	32, .28	15	11, .08	34, .32	12, .67	34, .35						
16	11, 1.37	36, .38	11, .47	36, .41	17	13, .07	38, .45	14, .58	38, .48						
18	12, .14	40, .51	13, .65	40, .55	19	16, 1.24	42, .58	16, .44	44, .01						
20	14, .29	46, .07	15, .73	46, .10	21	18, 1.04	48, .16	18, .27	48, .20						
22	16, .35	50, .24	17, .74	50, .28	23	20, .81	52, .33	20, .08	52, .37						
24	18, .35	54, .40	19, .69	54, .44	25	22, .58	58, .04	23, .86	58, .09						
26	20, .31	60, .12	21, .60	60, .17	27	24, .34	62, .21	25, .58	62, .25						
28	22, .22	64, .28	23, .47	64, .32	29	26, .08	66, .36	27, .29	68, .04						
30	24, .10	70, .06	25, .31	70, .11	31	29, .64	72, .14	29, .00	72, .19						
32	27, .77	74, .21	27, .14	74, .25	33	31, .33	76, .28	32, .46	78, .01						
34	29, .56	80, .03	30, .69	80, .08	35	33, .02	82, .11	34, .13	82, .15						
36	31, .34	84, .17	32, .44	84, .21	37	36, .39	86, .23	37, .48	88, .00						
38	33, .10	90, .02	34, .18	90, .06	39	38, .06	92, .09	39, .12	92, .13						
40	36, .49	94, .14	37, .56	94, .19	41	41, .34	96, .20	42, .37	98, .00						
42	38, .21	100, .01	39, .26	100, .06	43	44, .55	102, .07	45, .58	102, .12						
44	41, .51	104, .13	42, .52	104, .17	45	46, .18	106, .19	47, .19	108, .01						
46	43, .19	110, .01	44, .19	110, .06	47	49, .34	112, .07	50, .32	112, .12						
48	46, .40	114, .12	47, .39	114, .17	49	52, .45	116, .17	53, .43	118, .02						
50	48, .06	120, .02	49, .04	120, .06	51	54, .06	122, .07	55, .02	122, .12						
52	51, .22	124, .12	52, .18	124, .17	53	57, .14	126, .17	58, .08	128, .03						

Table 8 (continued)

54	54, .33	130, .03	55, .28	130, .07	55	60, .18	132, .08	61, .13	132, .13
56	57, .41	134, .13	58, .35	134, .17	57	63, .21	138, .00	64, .14	138, .04
58	59, .04	140, .05	61, .40	140, .09	59	66, .21	142, .09	67, .13	142, .14
60	62, .08	144, .14	63, .01	146, .01	61	69, .20	148, .02	70, .10	148, .06
62	65, .11	150, .06	66, .02	150, .10	63	72, .16	152, .11	73, .07	152, .15
64	68, .11	154, .15	69, .01	156, .04	65	75, .12	158, .04	76, .01	158, .08
66	71, .09	160, .08	73, .35	160, .12	67	78, .05	162, .12	80, .29	164, .02
68	74, .06	166, .02	76, .30	166, .06	69	82, .32	168, .06	83, .20	168, .10
70	77, .01	170, .10	79, .23	172, .00	71	85, .22	174, .01	86, .09	174, .05
72	81, .28	176, .04	82, .15	176, .08	73	88, .12	178, .09	90, .30	178, .13
74	84, .19	180, .12	85, .07	182, .03	75	91, .00	184, .03	93, .17	184, .07
76	87, .10	186, .07	89, .28	186, .11	77	95, .18	188, .11	96, .04	190, .02
78	91, .30	192, .02	92, .16	192, .06	79	98, .04	194, .06	100, .19	194, .10
80	94, .18	196, .10	95, .04	198, .02	81	102, .18	200, .02	103, .03	200, .05
82	97, .05	202, .05	99, .19	202, .09	83	105, .03	204, .09	107, .15	206, .01