

^{116}In $Z = 49$ $N = 67$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 986.188 (0.000) MeV
 Qbeta- = 3.276 (0.000) MeV
 Qbeta+ = 0.463 (0.000) MeV

	Energy T	J+		J-		J-other		T1/2
116IN 1	0.000	1+						1 14.10 S 3
116IN 2	0.127	5+						2 54.29 M 17
116IN 3	0.223	4+						3 139 PS LT
116IN 4	0.273	2+						4 69 PS LT
116IN 5				0.290	8-			5 2.18 S 4
116IN 6						0.313	4+,5+	6 631 PS 70
116IN 7				0.351	7-			7
116IN 8						0.366	7-,8-,9-	8
116IN 9				0.373	6-			9
116IN 10	0.426	4+						10 208 PS LT

116IN 11						0.448	1-,2-,3-	11
116IN 12				0.459	5-			12
116IN 13						0.460	4+,5+	13 139 PS LT
116IN 14	0.508	3+						14 104 PS LT
116IN 15				0.555	4-			15 139 PS LT
116IN 16				0.557	2-			16
116IN 17						0.649	6+, (4+,5+)	17
116IN 18	0.658	3+						18 139 PS LT
116IN 19						0.666	7+,8+	19
116IN 20						0.723	3+, (2+)	20

116IN 21				0.729	3-			21 104 PS LT
116IN 22						0.736	4+,5+	22
116IN 23	0.745	3+						23
116IN 24						0.761	6,7+	24
116IN 25						0.771	+	25
116IN 26						0.787	1-,2-,3-	26
116IN 27						0.789	+	27
116IN 28	0.791	3+						28
116IN 29	0.813	4+						29
116IN 30	0.829	4+						30 139 PS LT

116IN 31				0.850	3-			31
116IN 32				0.875	3-			32
116IN 33				0.893	4-			33
116IN 34						0.911	(2)+	34
116IN 35						0.914		35
116IN 36						0.921	+	36

116IN 37						0.949		4(+),5(+)		37
116IN 38				0.951		4-				38
116IN 39								0.970		39
116IN 40								0.973		40

116IN 41				1.008		6-				41
116IN 42								1.015		42
116IN 43								1.019		43
116IN 44		1.031		4+						44
116IN 45						1.053		5-		45
116IN 46								1.057		46
116IN 47								1.071		47
116IN 48								1.072		48
116IN 49				1.082		6-				49
116IN 50								1.082		50

116IN 51		1.088		6+						51
116IN 52								1.094		52
116IN 53						1.098		3-		53
116IN 54		1.119		3+						54
116IN 55								1.122		55
116IN 56								1.152		56
116IN 57								1.167		57
116IN 58								1.187		58
116IN 59								1.204		59
116IN 60								1.213		60

116IN 61		1.253		3+						61
116IN 62						1.258		3-		62
116IN 63								1.286		63
116IN 64								1.286		64
116IN 65						1.293		3-		65
116IN 66						1.318		6-		66
116IN 67								1.342		67
116IN 68								1.374		68
116IN 69		1.400		5+						69
116IN 70								1.426		70

116IN 71								1.438		71
116IN 72								1.451		72
116IN 73								1.466		73

S-p = 7.454 (0.001)-----
S-n = 6.785 (0.000)-----
S-2p = 17.897 (0.005)-----
S-2n = 15.823 (0.000)-----
S-alpha= 4.091 (0.002)-----

S+p = -9.437 (0.001)

S+n = -8.765 (0.005)
S+2p = -14.324 (0.003)
S+2n = -15.121 (0.008)
S+alpha = -2.592 (0.007)

gap p = -1.983 (0.001)
gap n = -1.980 (0.005)
gap 2p = 3.573 (0.005)
gap 2n = 0.702 (0.008)
gap alpha = 1.499 (0.008)