

$^{209}\text{Th}$        $Z = 90$        $N = 119$       adopted link      ENSDF link

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

BE      =    1600.104 ( 0.000) MeV

Qbeta+ =      7.545 ( 0.056) MeV

	Energy T	J+	J-	J-other	T1/2
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S-p	=	1.660	( 0.064)	-----	-----
S-n	=	8.369	( 0.032)	-----	-----
S-2p	=	1.702	( 0.058)	-----	-----
S-2n	=	0.000	( 0.000)	-----	-----
S-alpha	=	-8.162	( 0.023)	-----	-----
S+p	=	0.000	( 0.000)		
S+n	=	-10.402	( 0.019)		
S+2p	=	0.000	( 0.000)		
S+2n	=	-18.656	( 0.086)		
S+alpha	=	0.000	( 0.000)		
gap p	=	0.000	( 0.000)		
gap n	=	-2.033	( 0.037)		
gap 2p	=	0.000	( 0.000)		
gap 2n	=	0.000	( 0.000)		
gap alpha	=	0.000	( 0.000)		