

$^{136}\text{Xe}(\text{d,t})$  1966Sc13,1968Mo21

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Alexander A. Rodionov And Yuri L. Khazov		NDS 109, 517 (2008)	22-Jan-2008

1966Sc13: E=15 MeV. Measured  $\sigma(\theta)$ , comparisons with DWBA calculations. FWHM=80 keV. Magnetic spectrograph.

1968Mo21: E=13 MeV. Measured  $\sigma(\theta)$ , comparisons with DWBA calculations. Magnetic spectrograph. Uncertainty In cross sections=6%. First three levels are reported.

Relative  $d\sigma/d\Omega(60^\circ)$  are given by 1966Sc13.

 $^{135}\text{Xe}$  Levels

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	L <sup>†</sup>	S <sup>@</sup>	Comments
0	3/2 <sup>+</sup>	2	3.96	$d\sigma/d\Omega=1.30$ (60°) (1966Sc13), 3.45 mb/sr (30°) (1968Mo21).
290 20	1/2 <sup>+</sup>	0	1.86	$d\sigma/d\Omega=1.10$ (60°) (1966Sc13), 3.33 mb/sr (30°) (1968Mo21).
530 20	11/2 <sup>-</sup>	5	9.83	$d\sigma/d\Omega=0.31$ (60°) (1966Sc13), 0.82 mb/sr (30°) (1968Mo21).
1280 20	(5/2 <sup>+</sup> )	(2)		$d\sigma/d\Omega=0.26$ (60°) (1966Sc13).
1470 30	(5/2 <sup>+</sup> )	(2)		$d\sigma/d\Omega=0.31$ (60°) (1966Sc13).
1530?# 30		(0+4)		$d\sigma/d\Omega=0.16$ (60°) (1966Sc13). J <sup>π</sup> : 1966Sc13 suggest (1/2 <sup>+</sup> , 7/2 <sup>+</sup> ).
1830 30	(5/2 <sup>+</sup> )	2		$d\sigma/d\Omega=0.24$ (60°) (1966Sc13).
2100 30	(5/2 <sup>+</sup> )	2		$d\sigma/d\Omega=0.21$ (60°) (1966Sc13).

<sup>†</sup> From 1966Sc13, energy uncertainty assigned by the evaluators based on the statement by 1966Sc13 that it is 30 keV At 1.5 MeV and 50 keV At 3 MeV.

<sup>‡</sup> As proposed by 1966Sc13 from L-transfers.

# Probable doublet.

@ From 1968Mo21.