

$^{162}\text{Dy}(\text{p,p})$ IAR 1973Me24

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich, Balraj Singh		NDS 111, 1211 (2010)	12-Apr-2010

1973Me24: E=10– 12 MeV. Measured excitation functions at 90°, 125°, 141°, and 160°; Si(Li) and surface-barrier detectors. FWHM=20-25 at 12 MeV. Resolution was insufficient to resolve elastic and 2⁺ inelastic groups; doublets unfolded by assuming a Gaussian plus exponential tail shape.

 ^{163}Ho Levels

Resonance parameters from fit to data at 125° and 160°.

E(level) [†]	J ^π [‡]	Γ	L	Comments
10373	(1/2 ⁻)	<130 keV		Γ _p <6 keV E(parent)=350 in ^{163}Dy .
10460	(3/2 ⁻)	87 keV 60		Γ _p =2.2 keV 12 E(parent)=437 in ^{163}Dy .
10540	(7/2 ⁻)	<250 keV	3	Γ _p <2 keV E(parent)=517 in ^{163}Dy .
10579	(7/2 ⁻)	116 keV		Γ _p <1.8 keV E(parent)=556 in ^{163}Dy .
10824	(7/2 ⁻)	115 keV 53	3	Γ _p =2.7 keV 10 E(parent)=801 in ^{163}Dy .
10840	(3/2 ⁻)	138 keV 78	1	Γ _p =3.5 keV 14 E(parent)= 817 30 in ^{163}Dy .
10972	(7/2 ⁻)	115 keV		Γ _p <1.7 keV E(parent)=949 in ^{163}Dy .
11222	(1/2 ⁻)	111 keV 46	1	Γ _p =4.1 keV 12 E(parent)=1199 in ^{163}Dy .

[†] $\Delta E_{\text{C-Sn}}$ with $\Delta E_{\text{C}}=[-0.479+1.398/A^{1/3}]$ MeV and a correction of ≈ 100 for the deformation shift. E(g.s. analog)=10023 13.

[‡] From corresponding levels in ^{163}Dy (see Adopted Levels for ^{163}Dy).