^{165}Ho(^{40}Ar,6Particle normalization) 2012Fo09

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao	NDS 133, 221 (2016)	1-Dec-2015

2012Fo09: ^{165}Ho(^{40}Ar,6np), E=220.2 MeV. Beam: 220.2 MeV $^{40}Ar^{5+}$ pulsed beam (0.5 s on with 0.5 s off) with intensity up to 8.7×10^{11} pps delivered by the K500 cyclotron at TAMU. Target: self-supporting 497 μg/cm^2 thick ^{165}Ho. Reaction products were separated using the MARS (Momentum Achromat Recoil Spectrometer) separator and implanted on a 50 mm×50 mm, 300 μm thick Si strip detector with an energy resolution of about 60 keV (FWHM). Measured: E_α.

^{198}Po Levels

E(level)	J^π[†]	$T_{1/2}$[†]	Comments
0.0	0^+	1.76 min *2*	Eα=6181.6 *15* (2012Fo09). Other: Eα=6182.0 *22* recommended by 1991Ry01 from the measured Eα: 6181 *5* (1967Si09), 6178 *5* (1967Tr06), 6174 *8* (1971Ho01), 6183 *3* (1982Bo04).

[†] From Adopted Levels.