
 $^{209}\text{Bi}(\text{n,p})$ [1984Br03](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. Chen [#] and F. G. Kondev		NDS 126, 373 (2015)	30-Sep-2013

[1984Br03](#): E=60 MeV neutron beam was produced by the $^7\text{Li}(\text{p,n})$ reaction at the University of California, Davis. Protons were detected by $\Delta\text{E-E}$ telescopes of large-area plastic ΔE and NaI E detectors, FWHM=500 keV at $E_p=50$ MeV. Measured $\sigma(\theta)$.

Deduced analog isovector resonances.

Others:

[1990Fr05](#): E=300-580 MeV. Measured $\sigma(\theta)$.

[1990Ry01](#): E=14.3 MeV. Measured $\sigma(\theta)$.

 ^{209}Pb Levels

E(level)	L	Comments
≈ 8000		$\Gamma=2$ MeV Authors of 1984Br03 suggest this may be the analog of possible giant isovector quadrupole resonance at ≈ 26 MeV in ^{209}Bi or possibly a $2h\backslash'\omega$ -type transition.
≈ 15000	0	$\Gamma=2$ to 4 MeV. Authors of 1984Br03 suggest this may be the analog of possible giant isovector monopole resonance predicted at ≈ 30 MeV in ^{209}Bi and assign $L=0$.