81**Br(p,n)** 1987Kr10

History

THISTOLY			
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 199,271 (2025)	1-Sep-2024

 $J^{\pi}(\text{target})=3/2^{-}$.

E(p)=120 MeV, 200 MeV; 97.81% ⁸¹Br target, tof, NE102 scin, θ (lab)=0°-5°, FWHM=220-370 keV at 120 MeV and 730 keV at 200 MeV; measured n spectrum and forward angle $\sigma(\theta)$; deduced GT strength distribution for ⁸¹Kr excitation energy =0-17 MeV. Centroid of GT strength observed at ≈13 MeV. Summed GT strength ΣB(GT) for excitation energy ≤17 MeV is 18.5 26, 56% 8 of sum rule.

⁸¹Kr Levels

E(level) $J^{\pi^{\dagger}}$ L Comments

190 $1/2^{-}$ B(GT)=0.038 11.

457 $5/2^{-}$ B(GT)=0.017 7.

9.70×10³ 10 $3/2^{-}$ 0 L: based on sharp forward peak $\sigma(\theta)$. J^{π} : analog of $3/2^{-}$ 81 Br g.s.; based on L, Γ and excitation strength in high energy (p,n) reaction.

[†] From Adopted Levels.