^{48}Ti(d,2p)   2004Ra26

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	Jun Chen	NDS 179, 1 (2022)	30-Nov-2021

2004Ra26: E=183 MeV deuteron beam from the AGOR cyclotron at KVI. Target was 4.9 mg/cm^2 metallic self-supporting 99% enriched ^{48}Ti. Reaction products were momentum-analyzed with the Big-Bite Spectrometer (BBS) (FWHM=120 keV) and detected with the EuroSuperNova detector. Measured $\sigma(\theta(\text{c.m.})=0°-1.5°)$. Deduced levels, J, π, B(GT). Measurement made as part of an effort to deduce the ^{48}Ca T$_{1/2}(2\nu2\beta^-)$. See ^{48}Ca $2\beta^-$ for results.

Other: 2006Fr03, 1998GaZS.

^{48}Sc Levels

ΣB(GT$^+$)=0.427 _108_ (2004Ra26).

E(level)[†]	J$^\pi$[‡]	dσ/dΩ(μb/sr)[#]	Comments
(0.0)	6$^+$		E(level),J$^\pi$: from Adopted Levels.
0.6×10^3	3$^+$		E(level),J$^\pi$: from figure 4 of 2006Fr03.
1.4×10^3	2$^-$		E(level): from figure 4 of 2006Fr03.
2.20×10^3 _2_	1$^+$	63.7 _33_	B(GT$^+$)=0.047 _12_.
2.52×10^3 _2_	1$^+$	19.1 _23_	Strongest G-T transition in (^{3}He,t) is correlated with the weakest one in (d,2p) (2006Fr03). B(GT$^+$)=0.014 _5_.
2.98×10^3 _2_	1$^+$	97.4 _23_	
3.05×10^3 _2_	1$^+$	161.0 _66_	Barely observed in (^{3}He,t) (2006Fr03). B(GT$^+$)=0.192 _46_ for 2.98 and 3.05 MeV doublet.
3.15×10^3 _2_	1$^+$	23.1 _26_	B(GT$^+$)=0.017 _5_.
3.70×10^3 _2_	2$^-$	29.2 _46_	J$^\pi$: from figure 4 of 2006Fr03. dσ/dΩ suggests $J^\pi \neq 1^+$.
4.00×10^3 _2_	1$^+$	20.8 _24_	B(GT$^+$)=0.016 _5_.
4.14×10^3 _2_	1$^+$	120.7 _55_	Barely observed in (^{3}He,t) (2006Fr03). B(GT$^+$)=0.090 _22_.
4.28×10^3 _2_	1$^+$	33.5 _34_	B(GT$^+$)=0.025 _8_.
4.76×10^3 _2_	1$^+$	34.3 _32_	B(GT$^+$)=0.026 _8_.

[†] From 2004Ra26, accurate to ≈20 keV.
[‡] Suggested from dσ/dΩ (2004Ra26), except as noted.
[#] q=0. Uncertainties are statistical.