^{89}Y(^{3}He,^{3}He′)   1967Gi05

Includes (pol ^{3}He,^{3}He) and (^{3}He,^{3}He).

1967Gi05: E=43.7 MeV. Measured $\sigma(\theta)$ deduced deformation lengths.

1988Tu01: E=135 MeV. Measured $\sigma(\theta)$, deduced giant-quadrupole resonance (GQR).

1993Fa09: (pol ^{3}He,^{3}He) E=33.3 MeV. Measured $\sigma(\theta)$, Ay(θ).

(^{3}He,^{3}He): 1981Ra05 (29.6 MeV), 1980Hy02 (119 MeV), 1973Wi07 (217 MeV), 1969Lu03 (30,35 MeV).

Additional information 1.

^{89}Y Levels

E(level)[†]	L	β_L[‡]	Comments
0			
910			
1450	2	0.045	
1690	2	0.046	
2220	3	0.069	
2510	3	0.074	
2840	3	0.069	
3090	(2,4)		
3680	3	0.051	
3990			
4180	2	0.052	
4340			
4480			
4760			
5120			
5700			
6880			
14.7×10^3 *3*	2		E(level),L: GQR from 1988Tu01, FWHM=4.4 MeV *4*.

[†] Uncertainties are 25 keV for strong peaks and 50 keV for weak peaks.

[‡] Deformation parameter β_L (1967Gi05). The authors also give β_LR values using R$_0$=1.6 for the imaginary part of the potential.