^{90}Zr(^{20}Ne,^{19}Ne) 1990Fo04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 114, 1293 (2013)	1-Sep-2013

1990Fo04: E=500, 600 MeV; 98.5% ^{90}Zr target; magnetic spectrograph; θ(lab)=5.3°, 7°, 8° for E=600 MeV, 6.4° for E=500 MeV; $\Delta E/E \approx 3x10^{-3}$. DWBA calculations.

^{91}Zr Levels

E(level)	Comments
0	
2.5×10^3 *10*	E(level): probable multiplet dominated by known $h_{11/2}$ (2170 and 4070) and $g_{7/2}$ (2201 and 3469) states (1990Fo04).
14×10^3 *1*	E(level): probably arises from $i_{13/2}$ orbital excitations, based on selectivity of this reaction for transfer to high spin orbitals (1990Fo04). May be same structure as observed in (α,^{3}He) reaction. Not included in Adopted Levels.