^{9}Be(^{64}Cr,^{64}Cr′γ) 2010Ga06

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 178, 41 (2021).	12-Nov-2021

2010Ga06: secondary beam produced in the reaction ^{9}Be(^{76}Ge,X) with 130 MeV/nucleon beam provided by the NSCL-MSU. Fragments were separated using A1900 Fragment separator. The product nuclei were analyzed by S800 spectrograph. E(^{64}Cr)=87.0 MeV/nucleon was incident on ^{9}Be target for spectroscopic measurements for ^{64}Cr. Measured Eγ, Iγ, (^{64}Cr)γ coin using SeGA array of 32 HPGe detectors. Comparison with shell-model calculations.

^{64}Cr Levels

E(level)	Jπ†
0	0+
420 *7*	2+
1131 *11*	4+

† As given in 2010Ga06 based on systematics of even-even nuclides.

γ(^{64}Cr)

Eγ	Ei(level)	J_i^π	E_f	J_f^π
420 *7*	420	2+	0	0+
711 *9*	1131	4+	420	2+

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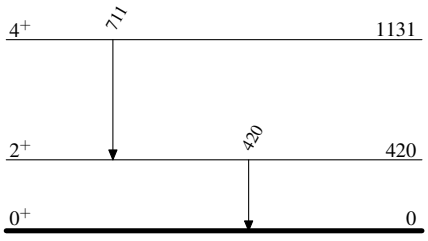
Level Scheme



$^{64}_{24}Cr_{40}$