$^{12}C(^{86}Kr,X\gamma)$ 2013St05

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson and W. D. Kulp(a)	NDS 129, 1 (2015)	27-Jul-2015

E=2.85/u MeV from the UNILAC accelerator of the GSI Helmholtzzentrum fuer Schwerionenforschung. The target consisted of a layer of 0.33 mg/cm2 ^{nat}C followed by 10.9 mg/cm2 ^{nat}Gd, 1.7 mg/cm2 ^{nat}Ta, and 6.82 mg/cm2 ^{nat}Cu. The goal of the experiment was to Coulomb excite ^{86}Kr and ^{90}Sr. However, ^{87}Rb was also produced, the authors assume by a proton pickup from ^{12}C.

^{87}Rb Levels

E(level)†	J^π‡	$T_{1/2}$	Comments
0	$3/2^-$		
402.586 *10*	$5/2^-$		
845.44 *4*	$1/2^-$	101 fs *+9−11*	$T_{1/2}$: From DSAM.
1349.36 *10*			
1577.9 *3*	$9/2^+$		

† From Adopted Levels.
‡ From Adopted Levels.

$\gamma(^{87}Rb)$

E_γ†	E_i(level)	J_i^π	E_f	J_f^π
402.6	402.586	$5/2^-$	0	$3/2^-$
845.4	845.44	$1/2^-$	0	$3/2^-$
946.7	1349.36		402.586	$5/2^-$
1175.3 *3*	1577.9	$9/2^+$	402.586	$5/2^-$

† As given by 2013St05.

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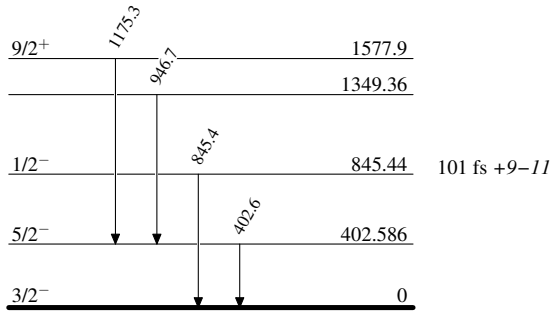
Level Scheme



$^{87}_{37}Rb_{50}$