

$^9\text{Be}(^{34}\text{Ar},\text{X}\gamma)$  2006Yo05

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 201,1 (2025)	31-Oct-2024

Two-neutron knockout reaction.

**2006Yo05:** E=110 MeV/nucleon  $^{34}\text{Ar}$  beam was produced from fragmentation of 150 MeV/nucleon  $^{36}\text{Ar}$  primary beam with a Be target at NSCL. Fragments were separated by the A1900 fragment separator. The secondary target was  $^9\text{Be}$  located at the pivot point of S800 magnetic spectrometer.  $\gamma$  rays were detected with the SeGA array of seventeen 32-fold segmented HPGe detectors and recoils were identified by  $\Delta E$ -time-of-flight method. Measured  $E_\gamma$ , particle- $\gamma$ -coin,  $\gamma$ -ray yields. Deduced levels.

All data are from **2006Yo05**.

 $^{32}\text{Ar}$  Levels

E(level)	$J^\pi$	Comments
0	$0^+$	$\sigma=0.41$ mb 7.
1867 8	$2^+$	$J^\pi$ : from Adopted Levels. $\sigma=0.07$ mb 4.

 $\gamma(^{32}\text{Ar})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
1867 8	1867	$2^+$	0	$0^+$

 $^9\text{Be}(^{34}\text{Ar},\text{X}\gamma)$  2006Yo05Level Scheme