

$^9\text{Be}(^{13}\text{C}, ^{11}\text{C})$ **2003Bo38**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu		NP A880, 88 (2012)	1-Jan-2011

1997Vo06: $^9\text{Be}(^{13}\text{C}, ^{11}\text{C})$, E=379 MeV; analyzed data.

1998Bo38: $^9\text{Be}(^{13}\text{C}, ^{11}\text{C})$, E=379 MeV; measured particle spectra. ^{11}Be deduced molecular rotational band.

1999Bo26: ^{11}Be deduced molecular rotational band.

2002Bo16: $^9\text{Be}(^{13}\text{C}, ^{11}\text{C})$, E=379 MeV; measured excitation energy spectra. ^{11}Be deduced level energies, possible J, π , rotational band features.

2003Bo24: $^9\text{Be}(^{13}\text{C}, ^{11}\text{C})$, E=379 MeV; measured excitation energy spectra. ^{11}Be deduced levels, possible J, π , configurations, rotational bands.

2003Bo38: $^9\text{Be}(^{13}\text{C}, ^{11}\text{C})$, E=379 MeV; measured particle spectra, $\sigma(E, \theta)$. ^{11}Be deduced levels, possible J, π .

2003Bo50: $^9\text{Be}(^{13}\text{C}, ^{11}\text{C})$, E=379 MeV; measured particle spectra. ^{11}Be deduced rotational bands.

Based on level spacing it is suggested that the K=3/2 molecular rotational band is based on $^{11}\text{Be}^*(3960, 5250, 6720, 8820, 10800, 13800, 18600, 21600, 25000)$ (see for example, [2003Bo38](#)).

J^π from level spacing systematics for a molecular rotational band.

 ^{11}Be Levels

E(level)	E(level)	J^π	E(level)	J^π	E(level)	J^π
0	3960	(3/2 $^-$)	8820	(9/2 $^-$)	13600	(13/2 $^-$)
320	5250	(5/2 $^-$)	9.3×10 ³ ?		18600	(15/2 $^-$)
1780	6000		10800	(11/2 $^-$)	21500	(17/2 $^-$)
2690	6720	(7/2 $^-$)	11800		25000	(19/2 $^-$)