

$^{110}\text{Pd}(\alpha,\alpha')$ 1992Ri02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal and F. G. Kondev		NDS 113, 1315 (2012)	1-Aug-2011

$E\alpha=30.5$ MeV. The beam was provided by the cyclotron of the University of Hamburg. $530\mu\text{g}/\text{cm}^2$ thick, 97.73% enriched, self-supported ^{110}Pd target was used. The scattered alphas were detected using Si detectors. Measured: $E(\text{level})$, $\sigma(\theta)$ at $\theta=10^\circ - 120^\circ$ in steps of 2.5° or 3° . Deduced: Isoscalar transition rates, deformation length parameters for 374 keV and 2038 keV levels from coupled channel calculations.

 ^{110}Pd Levels

<u>$E(\text{level})^\dagger$</u>	<u>J^π^\ddagger</u>	<u>$L^\#$</u>	<u>Comments</u>
0.0			
374 <i>10</i>	2^+	2	Deformation length $\beta_L R=1.15$ fm 6.
814 <i>10</i>			
923 <i>10</i>			
1934 <i>10</i>			
2038 <i>10</i>	3^-	3	Deformation length $\beta_L R=0.58$ fm 3.
2290 <i>10</i>			
2461 <i>10</i>			
3015 <i>10</i>			

† From 1992Ri02, $\Delta E\gamma \approx 10\text{keV}$, based on the comparison with (p,p') experiment cited by the authors.

‡ From the deduced L values.

$^\#$ From 1992Ri02.