

$^{31}\text{P}(\text{d},\text{d}')$  1966Lu04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh		NDS 184, 29 (2022)	24-Jun-2022

1966Lu04: E=9.8 MeV deuterons from Purdue University cyclotron. Solid state E- $\Delta$ E telescopes for angular distribution measurements. Distorted wave Bassel and optical model analysis.

Others:

2019Ni02: E=0.9-2.4 MeV. Measured  $\sigma(\theta)$ .

1970Fi01: E=11.8 MeV. Measured  $\sigma(\theta)$ .

1970Wo01: E=8, 12 MeV. Measured  $\sigma(\theta)$  used to determine DWBA parameters for  $^{30}\text{Si}(\text{t},\text{d})$ .

1968Ve11,1969Ve09: E=13.6 MeV. Measured  $\sigma(\theta)$ .

1961De23: E=11.85 MeV. Measured  $\sigma(\theta)$ .

1988Bh09:  $^{31}\text{P}(\text{pol d},\text{d})$  E=16 MeV, measured  $\sigma(\theta)$ ,  $\text{Ay}(\theta)$ . Deduced optical model parameters.

1985Br05:  $^{31}\text{P}(\text{pol d},\text{d})$  E=33 MeV. Measured  $\sigma(\theta)$ ,  $\text{Ay}(\theta)$  Deduced optical model parameters.

 $^{31}\text{P}$  Levels

E(level) <sup>†</sup>	Comments
0	
1265	$\sigma(26.7^\circ-170.7^\circ)=3.51$ mb 4 (1966Lu04).
2232	$\sigma(26.8^\circ-170.7^\circ)=6.74$ mb 4 (1966Lu04).
3133	$\sigma(32.3^\circ-170.8^\circ)=0.77$ mb 2 (1966Lu04).

<sup>†</sup> From 1966Lu04.