

$^{142}\text{Nd}(d,\alpha)$ 2012Bu03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 154, 1 (2018)	20-Nov-2018

Dataset based on unevaluated XUNDL file compiled by B. Singh (McMaster) from [2012Bu03](#).

[2012Bu03](#): E=25 MeV. Measured α spectra using Q3D magnetic spectrograph Munich. Target= NdO_3 54 $\mu\text{g}/\text{cm}^2$ on 7 $\mu\text{g}/\text{cm}^2$ carbon foil. Data at 30°. FWHM=11 keV. The ^{140}Pr spectrum was used for calibration of ^{150}Pm spectrum.

 ^{140}Pr Levels

<u>E(level)[†]</u>	<u>E(level)[†]</u>	<u>E(level)[†]</u>	<u>E(level)[†]</u>
0.0	330.9	784.5	1077.0 [‡]
27.2 [#]	389.9	862.0	1133.2 [‡]
29.5 [#]	419.9	885.2 [‡]	1213.7 [‡]
127.8	576.4	904.1 [‡]	1231.2 [‡]
191.8	604.3	1024.5 [‡]	1327.6 [‡]
287.1	642	1035.3 [‡]	1341.9 [‡]

[†] Rounded values from Adopted Levels, unless otherwise stated. Level populated in (d, α) reaction as shown in spectral figure 1 in [2012Bu03](#).

[‡] Level seen first time in [2012Bu03](#).

[#] 27.2 and 29.5 form an unresolved structure.