

---

 $^{144}\text{Nd}(\text{t,p})$  **1972Ch11**

---

| Type            | Author                                 | History | Citation            | Literature Cutoff Date |
|-----------------|----------------------------------------|---------|---------------------|------------------------|
| Full Evaluation | Yu. Khazov, A. Rodionov and G. Shulyak |         | NDS 136, 163 (2016) | 14-Jul-2016            |

**1972Ch11**:  $^{144}\text{Nd}(\text{t,p})$ ,  $E=12.83$  MeV; measured  $\sigma(E,\theta)$ .  $^{146}\text{Nd}$ ; deduced levels,  $J^\pi$ . Tandem, magnetic spectrograph,  $\text{FWHM}\approx 20$  keV, enriched target.

---

 $^{146}\text{Nd}$  Levels

---

| <u>E(level)<sup>†</sup></u> | <u><math>J^\pi</math><sup>†</sup></u> | <u><math>\sigma_{\text{max}}</math> [arb. units]</u> | <u>E(level)<sup>†</sup></u> | <u><math>\sigma_{\text{max}}</math> [arb. units]</u> | <u>E(level)<sup>†</sup></u> | <u><math>\sigma_{\text{max}}</math> [arb. units]</u> |
|-----------------------------|---------------------------------------|------------------------------------------------------|-----------------------------|------------------------------------------------------|-----------------------------|------------------------------------------------------|
| 0.0                         | 0 <sup>+</sup>                        | 100                                                  | 1975 15                     | 17                                                   | 2513 20                     | 9                                                    |
| 454 15                      | (2 <sup>+</sup> )                     | 45                                                   | 2078 20                     | 8                                                    | 2558 20                     | 13                                                   |
| 1046 20                     |                                       | 6                                                    | 2217 15                     | 23                                                   | 2600 20                     | 7                                                    |
| 1187 15                     |                                       | 22                                                   | 2274 20                     | 4                                                    | 2653 20                     | 10                                                   |
| 1511 20                     |                                       | 6                                                    | 2325 20                     | 4                                                    | 2693 20                     | 8                                                    |
| 1693 20                     | 0 <sup>+</sup>                        | 9                                                    | 2350 20                     | 9                                                    | 2739 20                     | 10                                                   |
| 1742 15                     |                                       | 18                                                   | 2462 20                     | 12                                                   | 3028 20                     | 11                                                   |

<sup>†</sup> From **1972Ch11**.