

¹⁴²Nd-1

The 16.5 μ s isomer of ¹⁴²Nd was first observed in 1964 by H.Krehbiel at the Universität Heidelberg, Germany ([1964Kr02](#)). This isomer is not included in the NUBASE2020 evaluation ([2021Ko07](#)) stating that it is not confirmed in a subsequent pulsed beam experiment by Prade et al. ([1987Pr09](#)). However, Prade et al. stated that they observed new levels on top of this 6⁺ isomer. Also, the isomer is listed in the second edition of the Atlas of nuclear isomers ([2023Ga02](#)).

- [1964Kr02](#) H. Krehbiel, Phys. Lett. **13**, 65 (1964).
[1987Pr09](#) H. Prade, J. Doring, W. Enghardt, L. Funke, and L. Kaubler, Z. Phys. A **328**, 501 (1987).
[2021Ko07](#) F. G. Kondev, M. Wang, W. J. Huang, S. Naimi, and G. Audi, Chin. Phys. C **45**, 030001 (2021).
[2023Ga02](#) S. Garg, B. Maheshwari, B. Singh, Y. Sun *et al.*, At. Data Nucl. Data Tables **150**, 101546 (2023).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isomer Database, doi:[10.11578/frib/2572219](https://doi.org/10.11578/frib/2572219)”