

¹⁴⁰Gd

In 1985, ¹⁴⁰Gd was identified by Lister et al. in “Deformation of very light rare-earth nuclei” ([1985Li13](#)). A ⁵⁰Cr beam from the Daresbury Laboratory Van de Graaff accelerator was incident on a ⁹⁴Mo target at 230 MeV. Gamma rays, neutrons and charged particles were detected and new ground-state bands observed. “This letter reports results on the ground-state bands in the even-even nuclei ¹²⁸Ce₆₈, ^{128,130,132}Nd_{68,70,72}, ^{134,136}Sm_{72,74}, and ^{138,140}Gd_{74,76}.”

Adapted from reference ([2013Ma01](#))

[1985Li13](#) C. J. Lister, B. J. Varley, R. Moscrop, W. Gelletly *et al.*, Phys. Rev. Lett. **55**, 810 (1985).

[2013Ma01](#) E. May and M. Thoennessen, At. Data Nucl. Data Tables **99**, 1 (2013).

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