

^{275}Ds

Oganessian et al. discovered ^{275}Ds in the 2024 article “Synthesis and decay properties of isotopes of element 110: ^{273}Ds and ^{275}Ds ” ([2024Og02](#)). ^{48}Ca beams of 250.6 MeV and 257.0 MeV were provided by the DC280 accelerator at the Superheavy Element Factory (SHE Factory) at the Flerov Laboratory of Nuclear Reactions (FLNR) of the Joint Institute for Nuclear Research (JINR) in Dubna, Russia and impinged on 0.65 mg/cm^2 ^{232}Th targets. Evaporation residues were separated and identified with the DGFRS-2 recoil separator. Six α -particle chains were observed for the decay of ^{275}Ds . “The new nuclide ^{275}Ds , a product of the 5n channel, with a half-life of $0.43^{+0.29}_{-0.12}$ ms and α -particle energy of 11.20 MeV, was synthesized for the first time.

[2024Og02](#) Yu. Ts. Oganessian, V. K. Utyonkov, M. V. Shumeiko, F. Sh. Abdullin *et al.*, Phys. Rev. C **109**, 054307 (2024).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”