^{276}Ds

In 2023, ^{276}Ds was discovered by Oganessian et al. in "New isotope ^{276}Ds and its decay products ^{272}Hs and ^{268}Sg from the ^{232}Th + ^{48}Ca reaction" (2023Og03). The DC280 cyclotron at the SHE Factory at JINR in Dubna accelerated a ^{48}Ca beam to 230−250 MeV impinging on ^{232}Th targets. Evaporation residues from the reaction ^{232}Th(^{48}Ca,4n) were separated and identified with the gas-filled separator DGFRS-2 which also detected subsequent α decays. "Three new nuclides were synthesized for the first time: [...] and ^{276}Ds with $T_{1/2} = 0.15^{+0.10}_{-0.04}$ ms, E_α = 10.75±0.03 MeV, and an SF branch of 57%."

Adapted from reference (2024Th02)

2023Og03 Yu. Ts. Oganessian, V. K. Utyonkov, M. V. Shumeiko, F. Sh. Abdullin *et al.*, Phys. Rev. C **108**, 024611 (2023).

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