# $^{286}$Mc

In 2022, Oganessian et al. reported the discovery of $^{286}$Mc in "New isotope $^{286}$Mc produced in the $^{243}$Am+$^{48}$Ca reaction" (2022Og08). The DC280 cyclotron at the SHE factory complex in Dubna, Russia was utilized to accelerate a $^{48}$Ca to 259.1 MeV which impinged on an enriched $^{243}$Am target. $^{286}$Mc was produced in the 5n evaporation reaction $^{243}$Am($^{48}$Ca,5n)$^{286}$Mc and detected with the gas-filled separator DGFRS-2. Residue and subsequent correlated $\alpha$ decays were measured in a double-sided strip detector and by eight side detectors. "The new isotope $^{286}$Mc was synthesized, and its half-life of $20^{+98}_{-9}$ ms and $\alpha$-particle energy of 10.71$\pm$0.02 MeV were determined."

Adapted from reference (2023Th03)


2022Og08 Yu. Ts. Oganessian, V. K. Utyonkov, N. D. Kovrizhnykh, F. Sh. Abdullin *et al.*, Phys. Rev. C **106**, 064306 (2022).

2023Th03 M. Thoennessen, Int. J. Mod. Phys. E **32**, 2330001 (2023).



Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"