^{76}Sr

In 1990, Lister et al. reported the observation of ^{76}Sr in the paper "Shape changes in N=Z nuclei from germanium to zirconium" (1990Li25). A 175 MeV ^{54}Fe beam from the Daresbury NSF tandem accelerator bombarded an enriched ^{24}Mg target and ^{76}Sr was produced in the fusion-evaporation reaction ^{24}Mg(^{54}Fe,2n). Gamma-rays were measured with ten shielded germanium detectors in coincidence with recoil products recorded in an ionization chamber. "In the ^{76}Sr experiment, the identification of the 260.9±0.2 keV first excited state was particularly straightforward as no other γ rays near this energy were produced in the fusion of ^{54}Fe and ^{24}Mg."

Adapted from reference (2012Pa21)

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