

¹⁵³Pm

The 1962 paper “Decay of a new nuclide promethium 153” by Kotajima described the first observation of ¹⁵³Pm ([1962Ko10](#)). A sample of ¹⁵⁴Sm₂O₃ was irradiated with 20 MeV bremsstrahlung at the JAERI linear accelerator. Beta- and gamma-rays singles as well as coincidences were recorded. “A new nuclide promethium 153 was investigated from the ¹⁵⁴Sm(γ ,p)¹⁵³Pm reaction induced by 20 MeV bremsstrahlung. The activity was measured with beta- and gamma-ray scintillation spectrometers. The half life of this nuclide was found to be $T_{1/2}=5.5\pm 0.2$ min and the end point energy of the beta ray was found to be $E_{\beta} = 16.5\pm 0.05$ MeV.”

Adapted from reference ([2012Ma48](#))

[1962Ko10](#) K. Kotajima, Nucl. Phys. **39**, 89 (1962).

[2012Ma48](#) E. May and M. Thoennessen, At. Data Nucl. Data Tables **98**, 960 (2012).

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)”