

¹²⁵Pm

Suzuki et al. discovered ¹²⁵Pm in “Discovery of Proton-Rich Radioactive Isotopes in the Z = 60 Region Produced by the Projectile Fragmentation of a 345-MeV/Nucleon ²³⁸U Beam” ([2025Su21](#)). The RI Beam Factory at RIKEN delivered the 345-MeV/Nucleon primary ²³⁸U Beam to a 1-mm thick beryllium production target. The fast fragments were separated with the BigRIPS in-flight separator and identified by the measurements of time of flight (TOF), the magnetic rigidities before and after a degrader, and the energy loss. “The new isotopes observed in our present study were 13 nuclides in total: ^{118,119}₅₇La, ^{119,120}₅₈Ce, ^{122,123}₅₉Pr, ^{123,124,126}₆₀Nd, ^{125,126,127}₆₁Pm, and ¹²⁸₆₂Sm.”

[2025Su21](#) H. Suzuki, N. Fukuda, H. Takeda, Y. Shimizu *et al.*, Prog. Theor. Exp. Phys. **2025**, 113 (2025).

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