

⁴⁶P

Lewitowicz et al. discovered ⁴⁶P in the 1990 paper “First observation of the neutron-rich nuclei ⁴²Si, ^{45,46}P, ⁴⁸S, and ⁵¹Cl from the interaction of 44 MeV/u ⁴⁸Ca + ⁶⁴Ni” (1990Le03). A 44 MeV/u ⁴⁸Ca beam was fragmented on a ⁶⁴Ni target at GANIL and the projectile-like fragments were separated by the zero degree doubly achromatic LISE spectrometer. “The isotopes of ⁴²Si, ^{45,46}P, ⁴⁸S, and ⁵¹Cl are identified for the first time.”

Adapted from reference (2012Th10)

1990Le03 M. Lewitowicz, R. Anne, A. G. Artukh, D. Bazin *et al.*, *Z. Phys. A* **335**, 117 (1990).

2012Th10 M. Thoennessen, *At. Data Nucl. Data Tables* **98**, 933 (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)”