

⁴⁰P

In 1979, ⁴⁰P was discovered by Auger et al. in “Observation of new nuclides ³⁷Si, ⁴⁰P, ⁴¹S, ⁴²S produced in deeply inelastic reactions induced by ⁴⁰Ar on ²³⁸U” (1979Au03). A 263 MeV ⁴⁰Ar beam from the Orsay ALICE facility bombarded a UF₄ target and reaction products were measured with a triple silicon solid state counter telescope. “Four new neutron-rich nuclides, ³⁷Si, ⁴⁰P, ^{41–42}S have been observed as a result of deep inelastic collisions. The nuclide identification combined two independent time of flight measurements as well as two ($\Delta E \times E$) informations and was quite unambiguous.”

Adapted from reference (2012Th10)

1979Au03 P. Auger, T. H. Chiang, J. Galin, B. Gatty *et al.*, Z. Phys. A **289**, 255 (1979).

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

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