

³³Mg

The first observation of ³³Mg was reported by Westfall et al. in “Production of neutron-rich nuclides by fragmentation of 212-MeV/amu ⁴⁸Ca” in 1979 ([1979We10](#)). ⁴⁸Ca ions (212 MeV/nucleon) from the Berkeley Bevalac were fragmented on a beryllium target. The fragments were selected by a zero degree spectrometer and identified in a telescope consisting of 12 Si(Li) detectors, 2 position-sensitive Si(Li) detectors, and a veto scintillator. “In this letter, we present the first experimental evidence for the particle stability of fourteen nuclides ²²N, ²⁶F, ^{33,34}Mg, ^{36,37}Al, ^{38,39}Si, ^{41,42}P, ^{43,44}S, and ^{44,45}Cl produced in the fragmentation of 212-MeV/amu ⁴⁸Ca.”

Adapted from reference ([2012Th10](#))

[1979We10](#) G. D. Westfall, T. J. M. Symons, D. E. Greiner, H. H. Heckman *et al.*, Phys. Rev. Lett. **43**, 1859 (1979).

[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)”