

## <sup>71</sup>Co

In their paper “New neutron-rich isotopes in the scandium-to-nickel region, produced by fragmentation of a 500 MeV/u <sup>86</sup>Kr beam”, Weber et al. presented the first observation of <sup>71</sup>Co in 1992 at GSI ([1992We04](#)). <sup>71</sup>Co was produced in the fragmentation reaction of a 500 A·MeV <sup>86</sup>Kr beam from the heavy-ion synchrotron SIS on a beryllium target and separated with the zero-degree spectrometer FRS. “The isotope identification was based on combining the values of  $B\rho$ , time of flight (TOF), and energy loss ( $\Delta E$ ) that were measured for each ion passing through the FRS and its associated detector array.” Forty counts of <sup>71</sup>Co were recorded.

Adapted from reference ([2010Sz02](#))

[1992We04](#) M. Weber, C. Donzau, J. P. Dufour, H. Geissel *et al.*, *Z. Phys. A* **343**, 67 (1992).

[2010Sz02](#) T. Szymanski and M. Thoennessen, *At. Data Nucl. Data Tables* **96**, 848 (2010).

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)”