

⁶⁵Co

Kouzes and Mueller reported the first observation of ⁶⁵Co in the 1978 paper “The Mass of ⁶⁵Co” ([1978Ko24](#)). The Princeton University AVF Cyclotron was used to accelerate ³He to 80 MeV which bombarded an enriched ⁷⁰Zr target and ⁶⁵Co was produced in the five-nucleon pickup reaction ⁷⁰Zn(³He, ⁸B). The mass of ⁶⁵Co was measured with two resistive-wire gas-proportional counters and a plastic scintillator located at the focal plan of a QDDD spectrograph. “The ⁷⁰Zn(³He, ⁸B)⁶⁵Co spectrum shows a ground state peak of about 20 nb/sr cross section above background.”

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

- [1978Ko24](#) R. T. Kouzes and D. Mueller, Nucl. Phys. A **307**, 71 (1978).
[2010Sz02](#) T. Szymanski and M. Thoennessen, At. Data Nucl. Data Tables **96**, 848 (2010).

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