^{234}Cm

^{234}Cm was discovered in 2016 by Kaji et al. as reported in the paper "Decay Properties of New Isotopes ^{234}Bk and ^{230}Am, and Even-Even Nuclides ^{234}Cm and ^{230}Pu" (2016Ka13). A 189.5 MeV ^{40}Ar beam accelerated by the RIKEN heavy-ion linear accelerator RILAC bombarded a gold target to form ^{234}Bk in the reaction ^{197}Au(^{40}Ar,3n). Reaction products were separated with the gas-filled ion separator GARIS and transported to the rotating wheel system MANON where correlated α-particles and fission fragments were measured. "^{234}Cm followed by the β-decay of ^{234}Bk was also identified... We observed 7.24±0.02 MeV α-line as the main peak and and half-life of 49^{+15}_{-9}s." The observation of ^{234}Cm was not considered a discovery referring to an internal report (2002CaZZ) and a conference proceeding (2002CaZU).

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