^{258}Rf

Ghiorso et al. discovered ^{258}Rf in 1969 in "Positive identification of two alpha-particle-emitting isotopes of element 104" (1969Gh01). ^{12}C and ^{13}C beams with energies of up to 10.4 MeV/u from the Berkeley heavy ion linear accelerator (Hilac) bombarded ^{249}Cf targets. ^{258}Rf was formed in both (^{12}C,3n) and (^{13}C,4n) fusion-evaporation reactions. Recoil products were swept by helium gas to a wheel, which rotated periodically. Alpha-decay and spontaneous fission was recorded with four Si-Au surface-barrier crystal detectors. "^{258}104 is tentatively identified as an 11-msec spontaneous-fission activity."

Adapted from reference (2013Th02)

1969Gh01 A. Ghiorso, M. Nurmia, J. Harris, K. Eskola, and P. Eskola, Phys. Rev. Lett. **22**, 1317 (1969).

2013Th02 M. Thoennessen, At. Data Nucl. Data Tables **99**, 312 (2013).

Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"