# $^{259}$Fm

Hulet et al. reported the observation of $^{259}$Fm in the 1980 article "Spontaneous fission of $^{259}$Fm" (1980Hu03). A 16 MeV triton beam from the Los Alamos Tandem Van de Graaf accelerator bombarded a $^{257}$Fm target forming $^{259}$Fm in the reaction ($^{3}$H,p). Recoil products were caught on a rotating wheel which moved the activities in front of two Si(Au) surface barrier detectors which measured spontaneous fission events. "A 1.5-s spontaneous fission activity has been produced by irradiating $^{257}$Fm with 16-MeV tritons. On the basis of formation cross sections, fission half-life systematics, and the identification of other possible products, this 1.5-s activity has been attributed to $^{259}$Fm formed by the reaction $^{257}$Fm(t,p)$^{259}$Fm."

Adapted from reference (2013Th02)


1980Hu03 E. K. Hulet, R. W. Lougheed, J. H. Landrum, J. F. Wild *et al.*, Phys. Rev. C **21**, 966 (1980).

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



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