

²⁹⁰F1

²⁹⁰F1 has not been discovered yet. In 2007, Hofmann et al. (2016Ho09) proposed to reassign a decay chain following the $^{48}\text{Ca} + ^{244}\text{Pu}$ reaction which was previously assigned to ²⁸⁹F1 (1999Og10) to ²⁹⁰F1. The unexpected spontaneous fission half-life was explained by assuming electron capture to ²⁹⁰Nh. However, this observation has not been confirmed. In 2023, Saamark-Roth et al. (2023Sa03) presumed an α -decay chain originating in ²⁹⁰F1 changing the earlier interpretation by the same research group: “Therefore, it cannot be incorporated in the main decay sequence of ²⁸⁹F1, while an assignment to ²⁹⁰F1 is unfavored based on the half-life of the terminating fission” (2023Co04). However, ultimately the assignment was not deemed to be correct: “Here, the optional assignment of one F1-decay chain to start from ²⁹⁰F1 was also presented but disfavored based on the lifetime of the terminating fission” (2023Sa03).

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