

Recent results on beta-delayed fission from ISOLDE experiments

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Beta-delayed (EC/b⁺, b⁻) fission is a rare nuclear decay process in which the beta-decaying parent nuclide populates excited states in its daughter, which may then fission.

The talk will review the results of two ISOLDE experiments performed by our collaboration* in 2011, in which beta-delayed fission of lightest Tl, At and Fr isotopes were investigated. In particular, beta-delayed fission of ²⁰²Fr was identified for the first time and a fission fragments mass distribution was measured.

*The work was performed by RILIS-ISOLDE(CERN)-UWS,Paisley (UK)-IKS,KU Leuven (Belgium)-Comenius University, Bratislava (Slovakia)-OLL, University of Liverpool (UK)-JAEA, Tokai (Japan)-Gatchina(Russia) collaboration

Author: Prof. ANDREYEV, Andrei (University of the West of Scotland (UWS))

Presenter: Prof. ANDREYEV, Andrei (University of the West of Scotland (UWS))

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