## The study of the spontaneous fission of heavy and superheavy nuclei

**Authors:** Andrey Isaev<sup>1</sup>; Roman Mukhin<sup>1</sup>; Alexandr Svirikhin<sup>1</sup>; Maxim Chelnokov<sup>1</sup>; Viktor Chepigin<sup>1</sup>; Devaraja Haleshappa<sup>1</sup>; Igor Izosimov<sup>1</sup>; Alyona Kuznetsova<sup>1</sup>; Oleg Malyshev<sup>1</sup>; Yurii Popov<sup>1</sup>; Bekzat Sailaubekov<sup>2</sup>; Evgeny Sokol<sup>1</sup>; Merei Tezekbaeva<sup>1</sup>

<sup>1</sup> FLNR JINR

<sup>2</sup> L.N. Gumilyov Eurasian National University

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Corresponding Author: isaev@jinr.ru

As a result of a recent experimental series on SHELS separator (FLNR JINR), new experimental data about spontaneous fission was obtained for a range of heavy nuclei. The isotopes of interest were synthesized in complete fusion reactions (244,246Fm, 250,252,254No, 256Rf, 260Sg) and multi-nucleon transfer reactions (Am isomers). The modern SFiNx system and planned SHE Fission TPC detector aimed to investigate the SF properties of short-lived superheavy nuclei on a GRAND gas-filled separator (SHE Factory) will be discussed.