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Scission point calculations and physical treating of the “Ni-bump” in ²⁵²Cf(sf)

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In a series of the experiments at different time-of-flight spectrometers of heavy ions we have observed manifestations of a new at least ternary decay channel of low excited heavy nuclei. Due to specific features of the effect, it was called collinear cluster tri-partition (CCT). The experimental results obtained initiated a number of theoretical articles dedicated to different aspects of the CCT. In the report we compare the theoretical predictions with our experimental data, only partially published so far. The developed model of one of the most populated CCT modes that gives rise to the so called “Ni-bump” is discussed.

Primary author(s) : Prof. PYATKOV, Yuri (MEPhI)

Presenter(s) : Prof. PYATKOV, Yuri (MEPhI)

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