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Microscopic and dynamical description of the fission process including intrinsic excitations

Friday, December 13, 2024 9:50 AM (20 minutes)

First of all, we will present new methods using constraints on overlaps and leading to continuous and regular, adiabatic and excited 1D PES, within the framework of constrained HFB theory. Next, we'll present some of the results that these new PES allow us to study, first at the static level, then by performing dynamics including intrinsic excitations using the SCIM formalism. Results include odd-even proton staggering, in-depth analysis of chemical potentials in deformation, and dynamical evaluation of TKE and TXE.

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