
**SELECTED ASPECTS OF INDUCED
NUCLEAR FISSION WITHIN SUPERFLUID EXTENSION OF TDDFT**
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We study dynamics of induced nuclear fission within the unrestricted time-dependent density functional theory framework. This self consistent and fully microscopic approach is based on the superfluid local density approximation formulated on a spatial lattice and takes into account coupling to continuum, includes all nuclear degrees of freedom and accounts for all the symmetries. Various aspects of superfluid dynamics will be presented for selected nuclei, including the dependence of kinetic and excitation energies of the fragments on the pairing gap and initial excitation energy. The role of nonaxial degrees of freedom in the fission process will be addressed.