



東京工業大学  
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# Fission Dynamics of $A=240$ Nuclei Based on Time-Dependent Density Functional Calculations

## 時間依存密度汎関数計算に基づく $A=240$ 領域の核分裂ダイナミクスについて

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場所：北2号館(原子炉工学研究所) 5階523号室 N2-5F room 523

Theoretical understanding of fission dynamics is still an open problem, especially when fully microscopic dynamics obeying quantum mechanics is related. Fission appears mainly due to the competition of the effects due to the volumetric energy and the surface energy, although another effect such as that due to pairing interaction is expected to play an important role in fission. An idealistic quantum framework accounting for such a competition is the time-dependent density functional theory. In this talk, based on a systematic time-dependent density functional calculation employing *SV-bas* interaction, the possibility and the dynamics of fission of  $(A,Z) = (240,90)$  is discussed.