

“重イオン核反応のための微視的相互作用モデル—現状と今後の展望—”  
Microscopic interaction models for heavy-ion reactions - present status and future perspective -

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Understanding the interactions between complex nuclei, starting from nucleon-nucleon interaction is one of the most fundamental subjects in nuclear physics and a key to understand unknown nuclear structure of exotic nuclei far from stability line through heavy-ion reactions. In this talk, I will review a brief history and the present status of microscopic interaction models for heavy-ion reaction and the study of dynamical effects of various reaction processes, such as collective excitation and projectile breakup, on the nuclear interaction.

I will also mention about future perspectives on the possible extension of the latest successful interaction model to heavy-ion reactions with exotic nuclei over the entire nuclear chart.

Language: Japanese  
(講演言語：日本語)

2012年2月14日(火) 13:30 -  
於 理研 仁科ホール

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