



独立行政法人理化学研究所 仁科加速器研究センター

第67回RIBF核物理セミナー

RIKEN Nishina Center for Accelerator Based Science

The 67th RIBF Nuclear Physics Seminar

## Study of Total Reaction Cross Sections at Intermediate Energies

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Dr. Maya Takechi (RIKEN Nishina Center)

The size of a nucleus is one of the most basic physical quantities which gives us useful information on the structure of nucleus. Especially, by the measurements of interaction cross sections at high energies, nuclear radii have been systematically studied through the Glauber-type calculation and halo or skin structure of unstable nuclei have been extensively discussed.

Recently, we successfully applied Glauber type calculation to the intermediate energy region with some modifications and developed the method to deduce the detailed radial shape of the nucleon density distribution. I will talk about our method and also report our recent studies of nucleon density distributions via the measurements of reaction cross sections for light nuclei.

Oct. 28(Tue), 2008 15:00-  
Nishina Hall, RIKEN

*The seminar will be given in English.*

*Contact: RIBF Nuclear Physics Seminar Organizer*

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