

830th ASRC Seminar

Date: 11月 16日(水), 15:00 ~ 16:30

Location: 先端基礎交流棟2階ロビー及びZoomによる開催

Speaker: 宮城 宇志 氏 (ダルムシュタット工科大学)

Title: Neutron skin of ^{208}Pb from first principles

Abstract:

The neutron skin thickness could be crucial to constrain the nuclear equation of state (EoS). According to the mean-field type studies, the neutron skin of ^{208}Pb is known to be strongly correlated with the slope parameter of the neutron matter EoS, motivating neutron skin thickness measurements. From this background, an ab initio study can be a good test of the correlation. Furthermore, it is interesting to see if the ab initio calculations can narrow down and predict the neutron skin. With the recent progress in the ab initio theory, such as underlying nuclear interaction, uncertainty quantification, and emulator technique, predicting the neutron skin of ^{208}Pb becomes feasible. In this talk, I will introduce the recent progress and show the prediction for the neutron skin of ^{208}Pb .

<Contact>

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ZoomのURLにつきましては、
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