

# 760<sup>th</sup> ASRC Seminar

Date: 令和元年6月19日(水)

13:30~

Location: 第2センター会議室(302会議室)

Speaker: 内藤 智也氏

(東京大学・物理学科/ 理研・仁科センター)

Title: 超重元素の理解に向けたDFT法の紹介と応用

要旨:

The density functional theory (DFT) is one of the powerful methods for quantum many-body problems, such as atomic nuclei, atoms, molecules, and solids. However, so far, the relativistic effects are not fully implemented in the DFT, while it is non-negligible in the properties of the super-heavy elements. Recently, all the relativistic effects in  $O(1/mc^2)$  are implemented in the DFT. In this talk, at first the basic ideas of DFT are introduced, and then the newly developed relativistic DFT and its results are discussed.

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