



東北大学 宇宙創成物理学国際共同大学院プログラム

GP-PU (Graduate Program on Physics for the Universe) Seminar

“Nuclear structure calculation for double-beta decay”

by Nobuo Hinohara (University of Tsukuba)

Time and Date: 15:00-17:00, Nov 22nd, 2022

Place: Room 745, Science Complex B H03 (hybrid)

Registration: "<https://us02web.zoom.us/meeting/register/tZAtdOiqrzsiGN1ERPPvZqbQqaUHRr4Iy6SP>"

Abstract: Neutrinoless double-beta decay will confirm the Majorana nature of the neutrino and will provide information on the neutrino mass hierarchy. To extract the neutrino mass from the measured half-life of the neutrinoless double-beta decay, we need theoretical values of the phase space factor and the nuclear matrix element. In this seminar, I will review the recent nuclear structure calculations for the nuclear matrix elements and discuss the correlations that influence the values of the nuclear matrix elements.

Contact : Yusuke Tanimura (E-mail: tanimura@nucl.phys.tohoku.ac.jp)