



Physics of weakly bound many-body systems

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日程(Dates):

10/29 (木) Oct.29 (Thu) 14:20-16:00

11/2 (月) Nov.2 (Mon) 10:40-12:20, 15:30-17:10

11/5 (木) Nov.5 (Thu) 13:00-14:40, 14:50-16:20

11/9 (月) Nov.9 (Mon) 10:40-12:20, 15:30-17:00 (Seminar)

場所(Place): On-line via zoom

<講義概要, Abstract>

One of the main issues in low-energy nuclear physics is to understand properties of atomic nuclei from the view point of many-body physics. In particular, it is important to clarify how correlations among nucleons affect their dynamics. In this lecture, we will consider weakly-bound nuclei such as neutron-rich nuclei close to the neutron drip line, and discuss theoretically their ground state properties and decay dynamics. The pairing correlation plays an important role there, and I will detail how it influences the dynamics of weakly-bound and unbound nuclei.