

# Mesons in nuclei and partial restoration of chiral symmetry

Daisuke Jido<sup>1</sup>

<sup>1</sup> Tokyo Metropolitan University

In this talk I would like to present recent topics on mesons in nuclei, especially emphasizing the role of the partial restoration of chiral symmetry in the nuclear medium. The spontaneously broken chiral symmetry in vacuum is considered to be incompletely restored in finite nuclear density systems with moderate reduction of the magnitude of the quark condensate, which is one of the order parameters of the chiral symmetry breaking. On the partial restoration of chiral symmetry, the wave function renormalization is important to be taken into account. We also discuss the possible change of the meson properties in the nuclear medium and meson-nucleus systems. I would like to pick up the  $\eta$ ,  $K$  and  $\eta'$  mesons.