

# Shuhei Ohzawa "Discrimination of Extended Higgs Sectors through Higher-Order Contributions to the Higgs Trilinear Coupling"

*Wednesday, 8 November 2023 16:35 (25 minutes)*

Since the nature of the Higgs boson remains undetermined, extended Higgs models with different Higgs potentials are proposed to explain phenomena beyond the Standard Model. In this presentation, we focus on the discrimination of extended Higgs models such as the Classical Scale Invariance model and the pseudo-Nambu-Goldstone model. By calculating the Higgs trilinear coupling at the 1-loop level, we discuss the feasibility of discriminating these Higgs models at future colliders such as the High-Luminosity LHC and the ILC.

**Session Classification:** Short talks