Contribution ID: 16 Type: not specified

## Searching for long-lived particles at Belle II

Searching for long-lived particles (LLPs) has emerged as an important research direction in the quest for physics beyond the Standard Model. Such searches can be performed at various terrestrial facilities including colliders, beam-dump experiments, and neutrino experiments. In this talk, I will focus on the ongoing Belle II experiment at the SuperKEKB collider in Tsukuba, Japan. I will present a series of phenomenological studies on light LLPs at Belle II, illustrating the experiment's discovery potential. Different theoretical models, production mechanisms, and experimental signatures will be discussed, along with the projected sensitivities.

Presenter: Prof. WANG (王), Zeren (泽人) (合肥工业大学)

Session Classification: Session 1