

Searching for Leptoquarks at Future Circular Colliders

Wednesday, 18 February 2026 15:30 (20 minutes)

We study the sensitivities of the Future Circular Collider (FCC) under electron-positron collision and hadron-hadron collision scenarios for the search of Leptoquarks. In particular, we focus on the Z-factory mode and the high-pT mode. For the Z-factory mode, we summarize past analytical works on Z-boson decays introducing Leptoquarks at loop-level. For the high-pT mode, we update the current search status of Leptoquarks at the Large Hadron Collider(LHC) and project the sensitivity for the Future Circular Collider based on it. We also comment on the potential for FCC to probe flavour anomalies via leptoquarks.

Presenter: HEIDERIJK, Christian

Session Classification: parallel session A: EW