XXI International Workshop on Neutrino Telescopes



Contribution ID: 3 Type: Contributed Talk

Neutrino studies with FASER

Wednesday, October 1, 2025 12:20 PM (20 minutes)

The FASER experiment at the LHC is designed to search for light, weakly-coupled new particles, and to study high-energy neutrinos. The experiment has been running since 2022, and has collected nearly 200/fb of pp collision data. FASER has released several neutrino results including the first observation of electron and muon neutrinos at a particle collider, the first measurement of the muon and electron neutrino interaction cross sections in the TeV energy range, and the first differential measurement with muon neutrinos and antineutrinos. This talk will summarise the FASER experiment, the neutrino results, and discuss future prospects for FASER neutrino results.

Neutrino Properties

ves

Neutrino Telescopes & Multi-messenger

nc

Neutrino Theory & Cosmology

no

Data Science and Detector R&D

no

Author: WANG, Yuxiao **Presenter:** WANG, Yuxiao

Session Classification: Neutrino Physics

Track Classification: Neutrino Properties