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Neutrino results at the FASER experiment

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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.

Secondary track

T05 - QCD and Hadronic Physics

Authors: ARIGA, Akitaka (University of Bern (CH) and Chiba University (JP)); COLLABORATION, FASER

Presenter: ARIGA, Akitaka (University of Bern (CH) and Chiba University (JP))

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