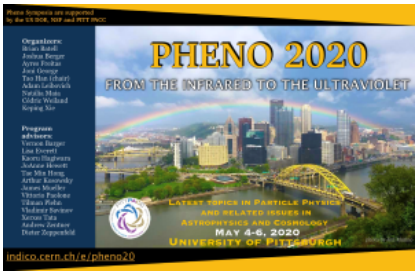

Contribution ID: **879** Type: **Parallel Talk**

Looking forward to Neutrinos at the LHC

Monday 4 May 2020 14:15 (15 minutes)

Neutrinos are copiously produced at particle colliders, but no collider neutrino has ever been detected. FASERν, a recently approved subdetector of FASER, is designed to detect such collider neutrinos for the first time and study their properties. In this talk, I will show that the small and inexpensive emulsion detector will be able to detect thousands of neutrino interactions with TeV energies. I will then discuss how FASERν will measure neutrino cross sections at energies where they are currently unconstrained, will bound models of forward particle production, and could open a new window on physics beyond the standard model.

Summary

Author: KLING, Felix (SLAC)

Presenter: KLING, Felix (SLAC)

Session Classification: Neutrinos I

Track Classification: Neutrinos