Contribution ID: **378** Type: **not specified**

Searching right-handed neutrinos at the FCC

Tuesday, 10 April 2018 18:25 (1 minute)

"Right-handed or, equivalently, sterile neutrinos are among the most attractive extensions of the SM to generate the light neutrino masses observed in neutrino oscillation experiments.
When the right-handed neutrinos are subject to a ""lepton number""-like symmetry they can have masses around the electroweak scale and potentially large Yukawa couplings, which makes them testable at the planned Future Circular Colliders (FCC).
In this talk I present an up-to-date overview on the different search strategies for right-handed neutrinos at the FCC in its electron-positron, proton-proton, or electron-proton configuration.
I provide a systematic assessment of the different search channels, give the state of the art sensitivities for the most promising signatures and discuss the synergy and complementarity of the different FCC configurations."

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Session Classification: Poster session

Track Classification: FCC-ee Phy/Exp