## Phenomenology 2023 Symposium



Contribution ID: 217 Type: not specified

## Probing type-II seesaw mechanism in alternative $U(1)_X$ model

Tuesday 9 May 2023 17:30 (15 minutes)

We investigate a pair production of doubly-charged scalars  $(\Delta^{\pm\pm})$  at the High-Luminosity LHC in the recently proposed alternative U(1)\_X extension of the Standard Model with the type-II seesaw mechanism. We focus on the  $\Delta^{\pm\pm}$  production mediated by U(1)\_X gauge boson (Z') and find an enhancement of the production cross section via Z' resonance compared with that through the Standard Model gauge interaction.

**Primary author:** Ms DAS, PUJA (Student)

Presenter: Ms DAS, PUJA (Student)
Session Classification: BSM XI

Track Classification: BSM