Contribution ID: **178** Type: **not specified**

Searching for Lepto-philic Z'at Future Lepton Colliders

Monday 8 May 2023 14:15 (15 minutes)

With simplest extension of SM symmetry by adding one extra U(1) symmetry, we introduce a new particle Z'. From the collider kinematic variable distribution, we can measure the deviation of the new model from background, with the sensitivity equation, we plot the constraints. Compare to current weak experimental constraints, we have better constraints in our lepton collider processes.

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Session Classification: BSM II

Track Classification: BSM