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Searching for Lepto-philic Z'at Future Lepton Colliders

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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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