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Large Extra Dimensions VINAY UPPAL, SUNY Stony Brook — In 1998 Nima Arkani-Hamed et al. showed how compact extra dimensions could potentially solve the hierarchy problem of the vast difference between the Electroweak Scale and the Planck Scale. This resulted in extensive research in the field of extra dimensions in the following decade. In this talk, I will first outline the motivation for studying the existence of large extra dimensions (LEDs). Then I will move on to the Kaluza-Klein formalism and show how the presence of flat compact dimensions explain the Grand Desert between 1 TeV to 10^{19} GeV. I will also outline the Randall-Sundrum Model based on warped extra-dimensions. Finally I will briefly touch upon the experimental progress in this field.

Prefer Oral Session
 Prefer Poster Session

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