

Abstract Submitted  
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**Measurements of Neutralino/Chargino Masses in the Focus Point Region at the LHC** WILL FLANAGAN, University of Colorado, TERUKI KAMON, BHASKAR DUTTA, ALFREDO GURROLA, Texas A&M, NIKOLAY KOLEV, University of Regina, MICHAEL VANDYKE, ABRAM KRISLOCK, Texas A&M — We present a systematic study of the dark matter allowed focus point region in the minimal supergravity (mSUGRA) model and the possibility of measurement of the dark matter content at the LHC. As part of this study, I will present both results and methodology for all neutralino and chargino mass measurements at the LHC. We will look at both the uncertainty and possibility of systematic errors in techniques such as looking for the dilepton edges in these decay modes. These measurements of neutralino and chargino masses at the LHC allow us to solve for the necessary model parameters which we can use to predict the dark matter relic density. This study can be applied to any other model for the focus point region.

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