

Abstract Submitted
for the APR20 Meeting of
The American Physical Society

Using a String Derived cMSSM to analyze regions of the Parameter Space to Find Dark Matter Candidates¹ ANDREW GEORGE, VAN MAYES², HAYLEY BEESON³, ALYSSA ANDERSON⁴, University of Houston - Clear Lake — We identify the neutralino, a potential dark matter candidate by analyzing parameter spaces using the dark matter computational model, MicroOmegas. We use a string theory based derived Constrained Minimal Supersymmetric Model(cMSSM) to mitigate the issue of naturalness and fine-tuning. Our results will determine whether the neutralino can be found at the electroweak scale.

¹With acknowledgment to University Of Houston - Clear Lake for providing funding.

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Date submitted: 09 Jan 2020

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