

SUSY 2024

Theory meets Experiment

Madrid

10-14 June 2024

Contribution ID: 90

Type: Parallel Talk

Implications of string landscape for LHC SUSY searches

Monday 10 June 2024 18:30 (20 minutes)

Rather general considerations from the string landscape imply a statistical draw to large soft terms which must be tempered by a pocket-universe derived value of the weak scale within the ABDS window. The statistical approach realizes Douglas' notion of stringy naturalness leading to $m_h \sim 125$ GeV and sparticles somewhat or well beyond present LHC search limits. Light higgsinos ~ 100 -350 GeV are expected and may emerge at LHC via soft dilepton signatures from higgsino pair production. As for dark matter, we expect mainly DFSZ SUSY axions along with a smattering of higgsino-like WIMPs.

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Session Classification: SUSY, Phenomenology and Experiment

Track Classification: SUSY: phenomenology and experiment