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Expectations for SUSY from the landscape

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In a fertile patch of the string landscape with the MSSM as the low energy EFT, it is expected that soft terms scan as a power law thus favoring large soft terms. This is to be balanced by the ABDS anthropic requirement that the pocket universe weak scale be not too far removed from our measured value. Under such conditions, the landscape predicts a Higgs mass of ~ 125 GeV with sparticles beyond present LHC search limits and a higgsino as the LSP. Dark matter is expected to be mixed axion plus higgsino LSP.

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