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Ways of Seeing: Finding BSM physics at the LHC

Monday, 2 December 2019 14:30 (20 minutes)

Searches for beyond-Standard Model physics at the LHC have thus far not uncovered any evidence of new particles, and this is often used to state that new particles with low mass are now excluded. Using the example of the supersymmetric partners of the electroweak sector of the Standard Model, I will present recent results from the GAMBIT collaboration that show that there is plenty of room for low mass solutions based on the LHC data, including a low mass dark matter particle. I will then present a variety of methods for designing new LHC analyses that can successfully target those solutions.

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