

PARTICLE PHYSICS SEMINAR SERIES

Desperately Seeking SUSY

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4:00 pm - Rm 415 NSH

Questions surrounding the measured value of the Higgs mass as well as astrophysical evidence for Dark Matter suggest that new particles and/or interactions are awaiting discovery. With the significant increase in collision energy and the large datasets of the LHC Run-2, we have continued our hunt for physics beyond the Standard Model by developing new strategies and machine-learning tools. I will discuss the ongoing searches for Supersymmetric partners of the top quark, called top squarks or "stops", and how their discovery could shed light onto the nature of the lightness of the Higgs mass and Dark Matter. My talk will focus on the most recent results using Run 2 data, and possible future directions in our search for new physics.



PHYSICS