

# Natural Supersymmetry and Implications for Higgs Physics

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Tuesday, October 8 ♦ 4:00 P.M.  
Room 415 Nieuwland Science Hall

The minimum ingredients for a natural supersymmetric theory are a light Higgsino and a light stop. Current SUSY searches at the LHC all involve extra, unnecessary assumptions -- such as the branching ratios of the stop squarks -- that obscure exactly how tightly natural supersymmetry is bounded. In this talk I will motivate the minimal, natural setup and discuss how it is constrained by current LHC data. I will focus on stop/sbottom searches, but will also mention Higgsino and gluino bounds.