

University of Notre Dame
College of Science
Department of Physics

PARTICLE PHYSICS SEMINAR

New Physics in B_s mixing: Uplifted SUSY

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The anomalous dimuon charge asymmetry reported by the D0 Collaboration may be due to the tree-level exchange of some spin-0 particles that mediate CP violation in B_s - \bar{B}_s meson mixing. In this talk I will introduce the D0 result and show that the range of couplings and masses necessary to generate a large charge asymmetry is natural in a variation of the MSSM known as “uplifted supersymmetry”.

ALL INTERESTED PERSONS ARE CORDIALLY INVITED TO ATTEND