

# Theory Seminar

Monday, October 6, 2008 2:10 PM 831 Pupin Hall



## Low-scale Gaugino Mediation

**I will describe the class of supersymmetric models featuring gaugino mediation at low (TeV) scale. These models predict an interesting and rather unusual spectrum, where gauginos are significantly heavier than scalar superpartners, while the lightest superpartners are the gravitino, right-handed sleptons and left-handed sleptons (no light neutralino!). Consequently, squark decay chains pass through one or more sleptons and typical final states from squark and gluino production at the LHC include multiple leptons and no significant missing energy. As an illustration, I will present an explicit (four-dimensional) realization of low-scale gaugino mediation and discuss some of its distinctive phenomenology.**

Presented By **Andrea De Simone, MIT**

