

The Hebrew University of Jerusalem , Joint High Energy Physics Seminar

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The White Dove Conference Hall at Nave-Shalom (Wahat al-Salam)

"(Non-)Decoupled Supersymmetric Field Theories"

I will talk about some aspects of the coupling of supersymmetric field theories to supergravity. I will focus in particular on the background field M , and discuss a prescription for how fix its couplings up to quadratic order. These couplings are generated at two-loops in perturbation theory. They enter in the Lagrangian of rigid supersymmetric theories in some curved spaces. Moreover, this analysis leads to a transparent derivation of the Anomaly Mediated soft masses. The talk is based on the work 1402.3385.

Additional details of the upcoming joint High Energy Physics' seminars can be found on the following link - [Joint High Energy Physics Seminars](#)