Séminaire commun LAL/LPT

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Sven Heinemeyer

IFCA (CSIC-UC), Santander, Spain

Mardi 26 février 2008 à 11h00

"Finite Unified Theories : Predictions for the lightest Higgs mass and other collider observables"

Finite Unified Theories (FUTs) are N=1 supersymmetric Grand Unified Theories that can be made all-loop finite. The requirement of all-loop finiteness leads to a severe reduction of the free parameters of the theory and, in turn, to a large number of predictions. FUTs are investigated in the context of low-energy phenomenology observables. These comprise predictions for the top and quark bottom masses, the lightest Higgs boson mass, the anomalous magnetic moment of the muon, B~physics observables andconstraints from cold dark matter densities. These predictions can directly be tested at todays and at future accelerator experiments.

Salle 101 du LAL - Bât. 200, Orsay

Thé et café seront servis ¼ h avant le séminaire.

Organisation : Sophie Henrot-Versille, Stéphane Plaszczynski (LAL), Yann Mambrini, Sébastien Descotes-Genon (LPT).

7/02/08