## SEMINARIO DEL DEPARTAMENTO DE FÍSICA TEÓRICA

15 de Septiembre de 2010, 15 h., Módulo 15 (C-XI) aula 201

## Low Scale Flavor Gauge Symmetries

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**Abstract**: I will discuss the possibility of gauging the Standard Model flavor group. Anomaly cancellation leads to the addition of fermions whose mass is inversely proportional to the known fermion masses. In this case all flavor violating effects come out to be controlled roughly by the Standard Model Yukawa, suppressing transitions for the light generations. Due to the inverted hierarchy the scale of new gauge flavor bosons could be as low as the electroweak scale without violating any existing bound but accessible at Tevatron and LHC. The mechanism of flavor protection potentially provides an alternative to Minimal Flavor Violation, with flavor violating effects suppressed by hierarchy of scales rather than couplings.

Más información: http://www.ft.uam.es/seminarios.html