Contribution ID: **93** Type: **not specified**

Prospects on extensions of the Standard Model with vector-like quarks

Wednesday 1 June 2011 15:15 (15 minutes)

Modifications of the Standard Model through the inclusion of vector-like quarks (i.e. quarks that are singlets under weak isospin transformations) potentially show signicant deviations in a vast number of predictions, ranging from intensively studied low energy flavour changing processes to high energy electroweak precision data and collider observables. In this talk we address the prospects for such models: (1) to be in agreement with Standard Model like available experimental information, (2) to explain deviations from Standard Model expectations in several observables (specially in the flavour sector), (3) to yield testable predictions for additional observables in the near future.

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Session Classification: P7 - FLAVOUR AND MFV