



Contribution ID: 49

Type: **not specified**

Higgs potential in an S_3 extension of the Standard Model

Thursday, 6 December 2012 15:15 (25 minutes)

We present the vacuum stability conditions of an S_3 extension of the Standard Model with three Higgs doublets. We present the form of the mass matrices and analytical expressions of the masses in two different versions of the model.

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Session Classification: P10 –HIGGS THEORY I