



ID de Contribution: 152

Type: **Ordinary**

Lepton flavour violating Higgs decays

vendredi 21 mars 2014 10:55 (15 minutes)

In the inverse seesaw, the smallness of the neutrino mass is related to the smallness of a lepton number violating mass term while the seesaw scale is naturally close to the TeV. This allows for large effects in lepton flavour and universality violating observables as was previously demonstrated. With the ongoing and planned measurements of the Higgs boson properties at the LHC, we found timely to investigate the possibility of having large lepton flavour violating branching ratios in Higgs decays. In this presentation, we will discuss our results on the lepton flavour violating Higgs decay rates and their implication for the inverse seesaw.

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Classification de Session: Beyond the Standard Model

Classification de thématique: Theory