

Abstract Submitted  
for the TSS13 Meeting of  
The American Physical Society

**Higgs in Hot and Dense Background** SAMINA MASOOD, University of Houston Clear Lake — We study the leptonic decays of Higgs boson in hot and dense medium. It is shown explicitly that the currently known Higgs mass will suppress the temperature and density effects to the ignorable level. However, since Higgs scale is related to the symmetry breaking scale, it is still interested to see how the symmetry breaking mechanism is affected in hot and dense media.

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Date submitted: 04 Mar 2013

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