

## Particle Theory Seminar

## S. Uccirati

Universität Karlsruhe

"Two-loop corrections to  $H \to \gamma \gamma$ "

Thursday, April 10, 2008, 11:30

WBGB/021 (new room!)

## **Abstract:**

The decay of the Higgs boson into photons is the main discovery channel at LHC for a light Higgs. In this talk I present the methods and the results of a recent computation for the two-loop EW and QCD correction to this process. I discuss in particular the analysis of the behaviour at the WW threshold and describe some techniques for the cancellation of the collinear logarithms in diagrams with many mass scales.