



Contribution ID: 340

Type: Parallel Session Talk

## Higgs production at the Tevatron: theoretical predictions and uncertainties

*Thursday, 22 July 2010 16:15 (22 minutes)*

I will present an update of the theoretical predictions for the production cross sections of the Standard Model Higgs boson at the Tevatron collider. The two main search channels will be discussed, the gluon-gluon fusion mechanism  $gg \rightarrow H$  and the Higgs-strahlung process  $q \bar{q} \rightarrow VH$  with  $V=W/Z$ , including all relevant higher order QCD and electroweak corrections in perturbation theory. A thorough analysis of the various uncertainties affecting these predictions will then follow.

**Primary authors:** Dr DJOUADI, Abdelhak (LPT Orsay / CERN); Mr BAGLIO, Julien (Theoretical Physics Laboratory, Orsay)

**Presenter:** Mr BAGLIO, Julien (Theoretical Physics Laboratory, Orsay)

**Session Classification:** 02 - The Standard Model and Electroweak Symmetry Breaking

**Track Classification:** 02 - The Standard Model and Electroweak Symmetry Breaking