



# CERN Joint EP/PP Seminars

SPEAKER: **Krisztian Peters (University of Manchester)**  
TITLE: **Higgs Searches -- Latest Results from the Tevatron**  
DATE: Tue 01/12/2009 11:00  
PLACE: Main Auditorium

## ABSTRACT

The current status of Standard Model Higgs searches at the Tevatron is presented. A comprehensive program of searches in many Higgs boson production and decay channels is underway, with recent results using up to 5.4/fb of data collected with the CDF and D0 detectors. The major contributing processes include associated production ( $WH \rightarrow lvbb$ ,  $ZH \rightarrow v\bar{v}bb$ ,  $ZH \rightarrow llbb$ ) and gluon fusion ( $gg \rightarrow H \rightarrow WW$ ). Improvements across the full accessible mass range resulting from the larger data sets, improved analyses techniques and increased signal acceptance will be discussed. A new CDF and D0 combined result with the updated data set will also be presented. Finally, I will discuss prospects for Higgs searches at the Tevatron.