



# EP/PP seminars

SPEAKER: Pierluigi Catastini (Harvard University)

TITLE: **"Invariant Mass Distribution of Jet Pairs Produced in Association with a W Boson in  $p\bar{p}$  Collisions at  $\sqrt{s}$  1.96 TeV"**

DATE: Tue 03/05/2011 11:00

PLACE: Council Chamber

## ABSTRACT

We present a study of the invariant mass distribution of jet pairs produced in association with a W boson using data collected with the CDF detector which correspond to an integrated luminosity of  $4.3 \text{ fb}^{-1}$ . The observed distribution has an excess in the 120-160  $\text{GeV}/c^2$  mass range which is not described by current theoretical predictions within the statistical and systematic uncertainties. In particular we will discuss the properties of this excess.