



EP Seminar

SPEAKER: Karolos Potamianos (Lawrence Berkeley National Lab. (US))

TITLE: **Update on the di-jet mass spectrum in W+2jet events at CDF**

DATE: Tue 23/07/2013 11:00

PLACE: Council Chamber

ABSTRACT

In 2011 CDF reported an excess of events with respect to SM background expectations in the $W + 2 \text{ jet}$ final state, potentially consistent with a resonance in the dijet invariant mass spectrum in the neighborhood of $145 \text{ GeV}/c^2$.

Here, we report on updated CDF results for this channel using the full Run II data set and incorporating improvements in the techniques used to model SM background contributions.

In addition, we report on searches performed in orthogonal final states where one might also expect to observe contributions from a non-SM production mechanism if this was in fact the explanation for the previously observed excess in the $W + 2 \text{ jet}$ final state.