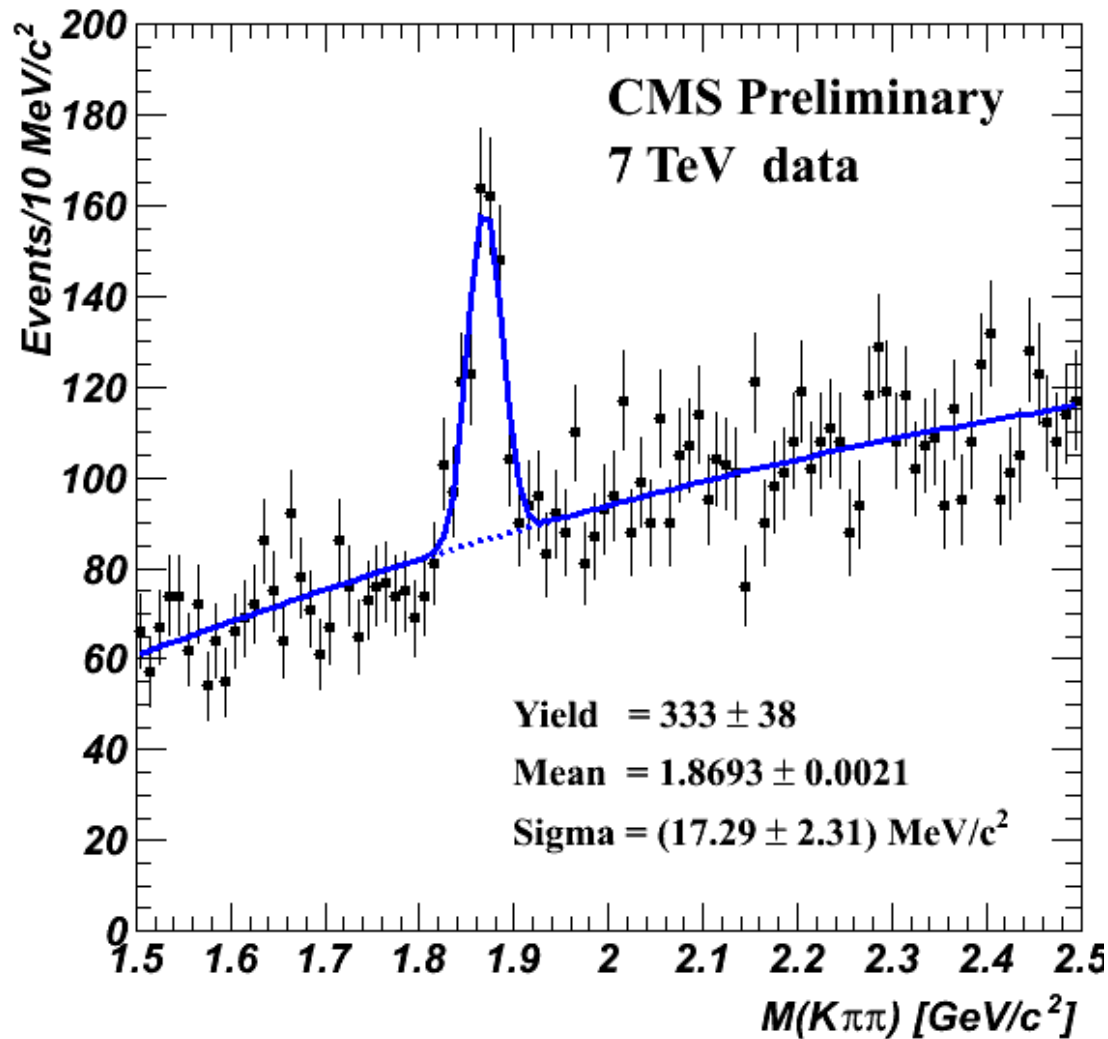


D⁺ search



Information

- Contact: Daniele Pedrini
pedrini@cern.ch
- Preapproval talk at the Tracker DPG - Tracking POG meeting April 29, 2010
 - <http://indico.cern.ch/conferenceDisplay.py?confid=82582>
- Data: ~24M events from: MinimumBias/Commissioning10-GOODCOLL-v8/RAW-RECO
- Search for D⁺ → Kπ⁺π⁺ (and c.c.)
 - secondary vertex formed by 3 tracks with total charge ±1
 - topological approach: L/S and D⁺ pointing to the primary
 - Momentum cuts on tracks:
p > 1.5 GeV
p_T > 0.1 GeV
- Binned ML fit (Minuit)
 - Signal = Gaussian
 - Bkg = 2nd order polynomial

More details of the analysis can be found at
– <https://twiki.cern.ch/twiki/bin/viewauth/CMS/DplusAt7TeV>