

# MC Jet Resolution Study

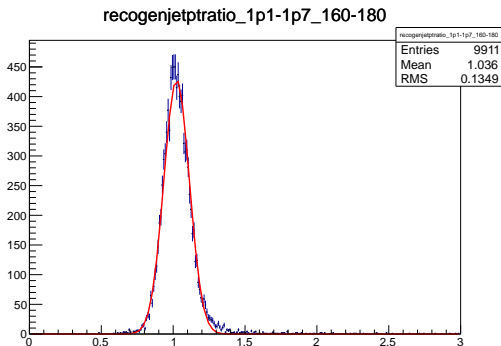
P. Dunne

## Introduction

- ▶ MC jet resolution used in smearing method for jets without a gen jet match
- ▶ We still have differences between analysis A & B in the  $W \rightarrow \tau\nu$  background due to smearing
- ▶ Analysis A use MC resolutions from Spring '10
- ▶ JetMET POG recommend measuring MC resolution yourself

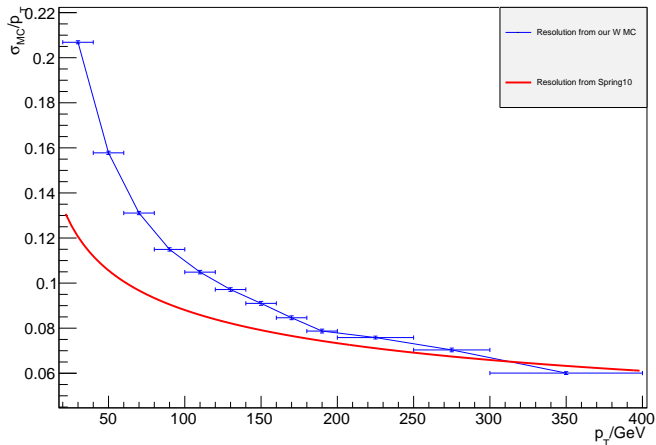
## Method

- Fit a gaussian to  $p_{T\text{reco}}/p_{T\text{gen}}$  in bins of pt and eta
- Eta binning used is the same as that used for data to mc correction factor



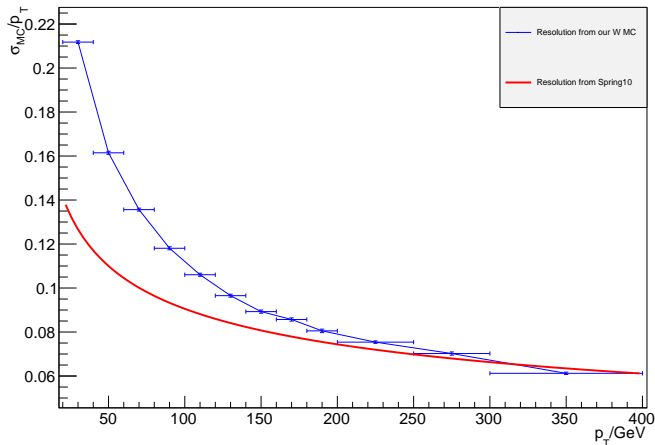
## Plots

$0 < \eta < 0.5$



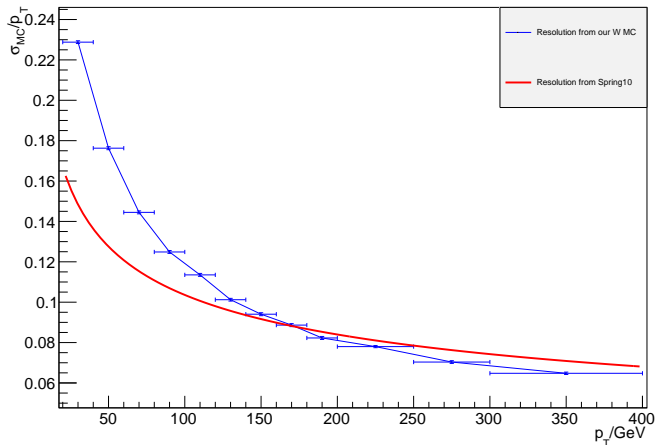
## Plots

$0.5 < \eta < 1.1$



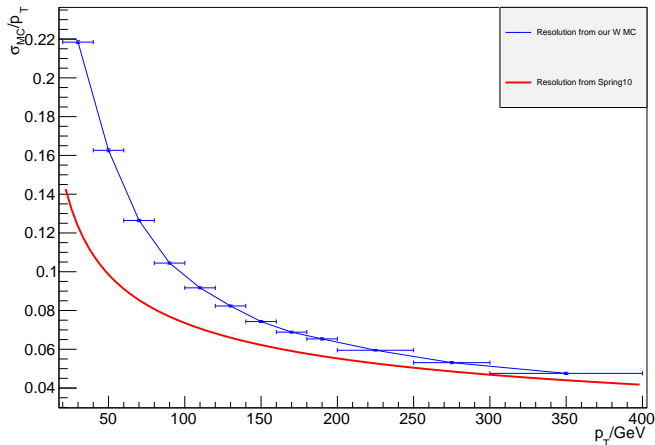
## Plots

$1.1 < \eta < 1.7$



## Plots

$1.7 < \eta < 2.3$



## Plots

$2.3 < \eta < 5$

