

Runs # 138425-141042

Jet_20 sample / $R_{\text{cone}} = 0.7$

Cuts:

- $|z\text{-vertex}| < 60 \text{ cm}$ (FastZ)
- $0.2 < |\eta_{\text{trigger}}| < 0.8$
- $E_T \text{ trigger, probe jet} > 20 \text{ GeV}$
- $E_T \text{ 3}^{\text{rd}} \text{ jet} < 15 \text{ GeV}$
- $(E_T \text{ trigger+probe} > 50 \text{ GeV})$
- $(\Delta\phi_{jj} > 2.5)$

Probe jet randomly assigned
when both jets are central

$$MPF = \frac{2 \cdot (P_T^{\text{trigger}} - P_T^{\text{probe}})}{P_T^{\text{trigger}} + P_T^{\text{probe}}}$$

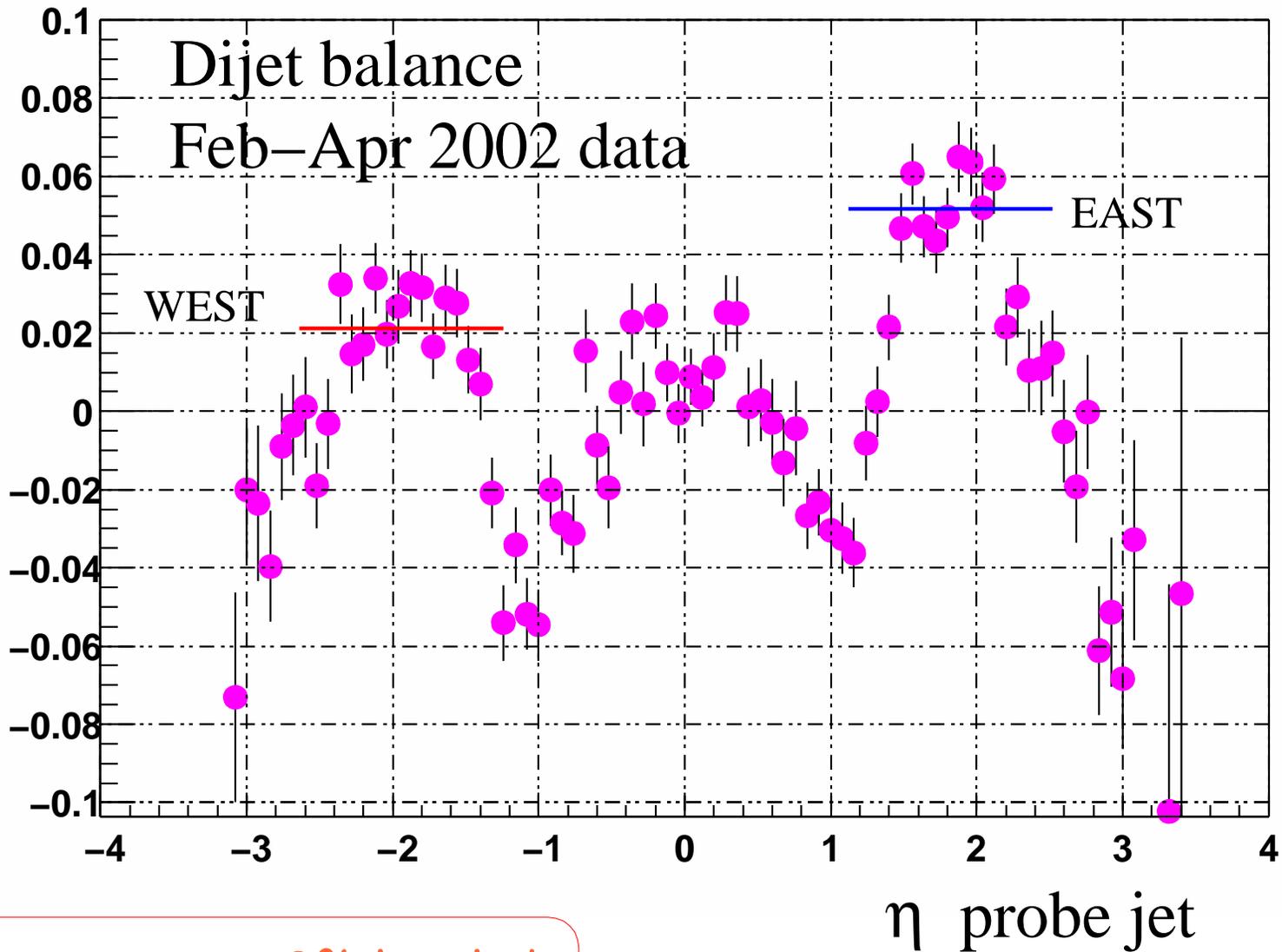
(cf CDF note #1513)



Dijet balance



Runs # 138425-141042



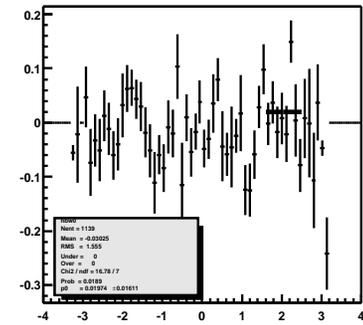
asymmetry $\sim 3\%$ level ?!



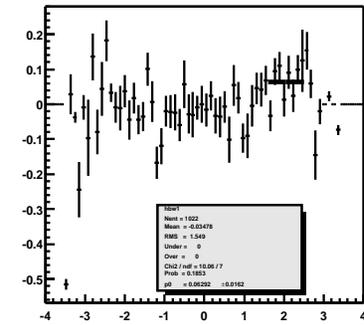
Selected runs with #events > 8000



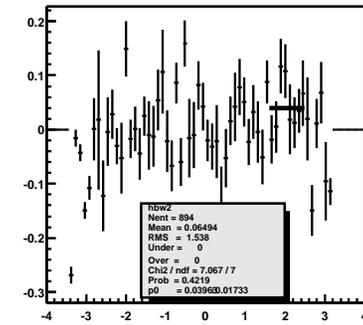
Dijet_bal west



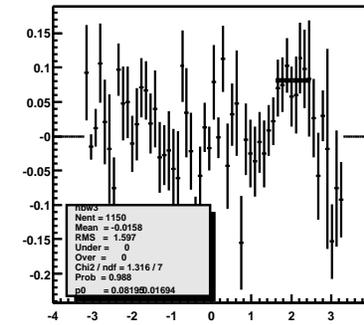
Dijet_bal west



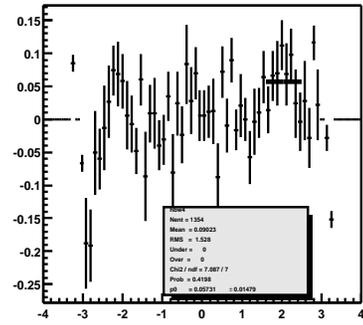
Dijet_bal west



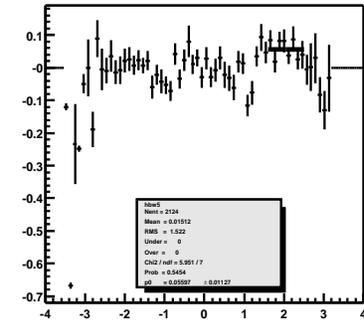
Dijet_bal west



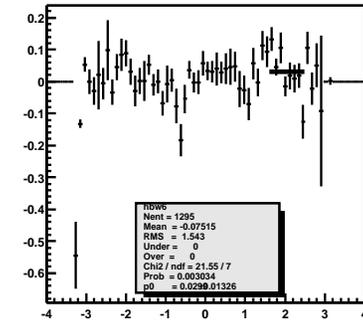
Dijet_bal west



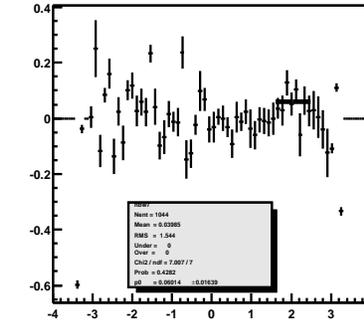
Dijet_bal west



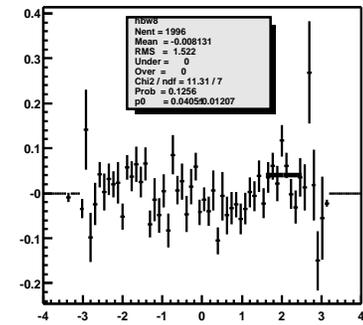
Dijet_bal west



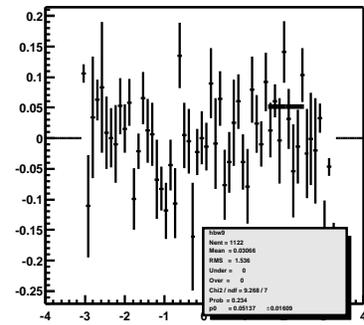
Dijet_bal west



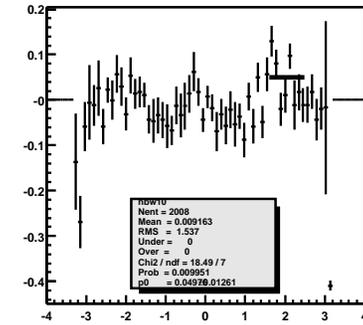
Dijet_bal west



Dijet_bal west



Dijet_bal west



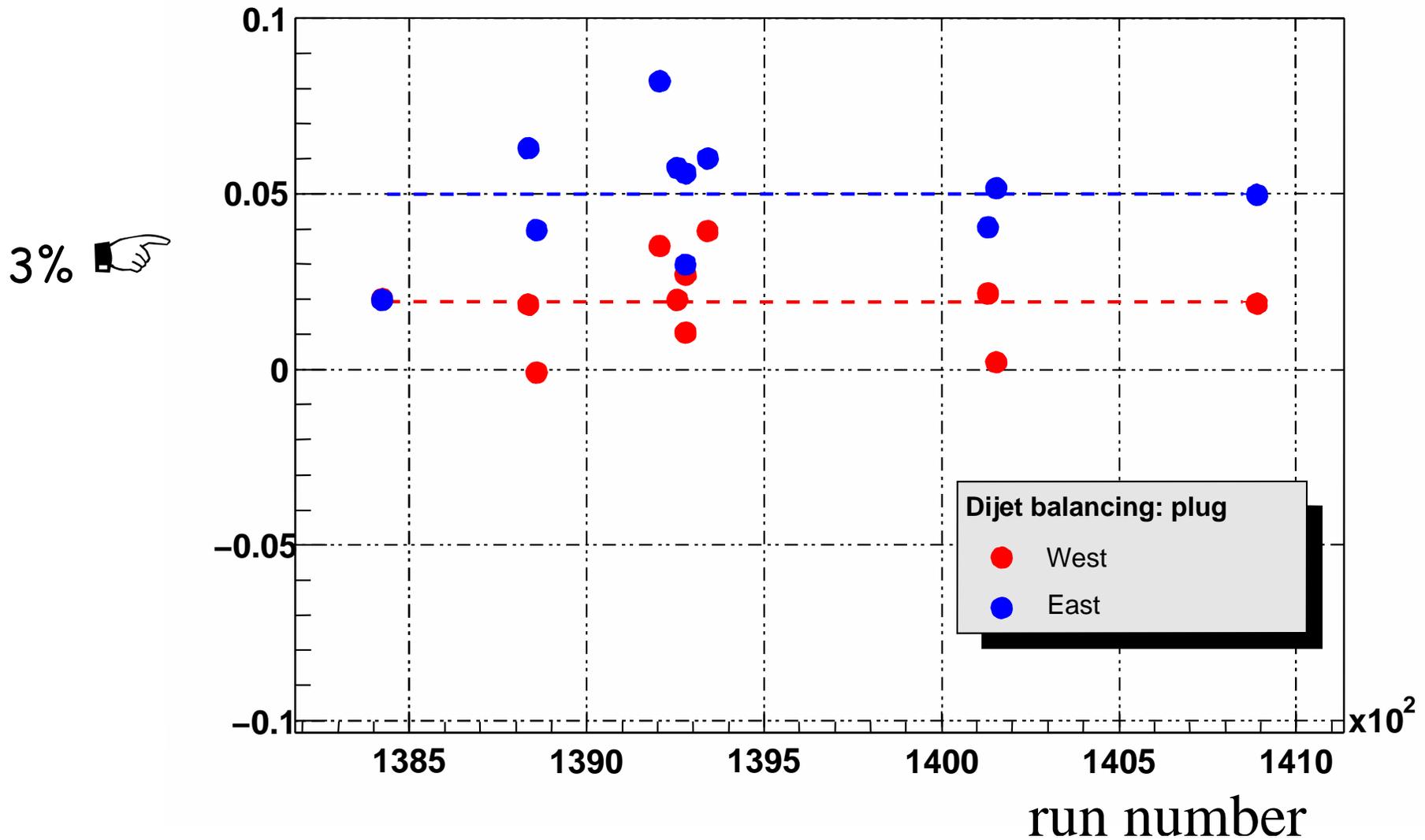
↩ fit independently
1.6 < |η| < 2.5 in
east/west plugs



Asymmetry vs run#



Selected runs with # events > 8000





So what ?!



Work in progress (under investigation):

- calibrations ?!
- p beam more intense → underlying event garbage ?!
- trigger bias (PV reco/eff) ?!