Dijet balance studies (update)

- Looking for a time dependence in plug response
- Preliminary comparison data/MC in 4.5.3 (i.e. post–bug)

Time dependence

Trying to extract a time dependence in the dijet balance analysis ...

- ☞ to be connected/compared with laser runs (Willis, jcor–mtg 6/12/02) and jet occupancies (Frank Chlebana, calo–mtg 6/19/02) results on "plug signal fading" symptom

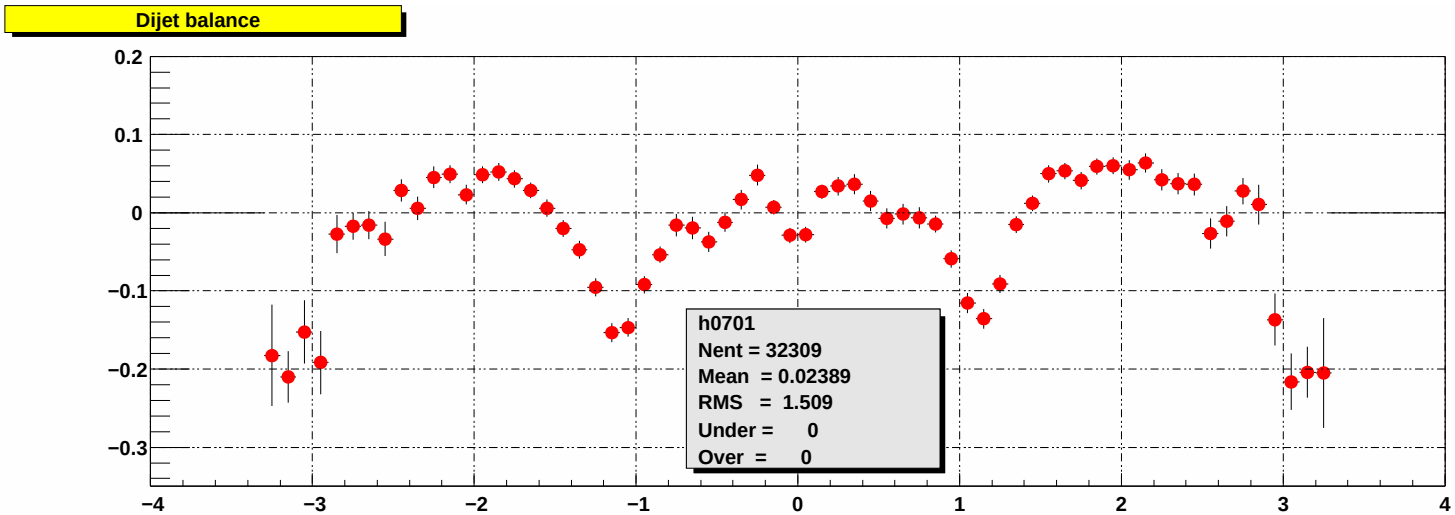
Caveat: not a one–entry–per–event validation approach ...

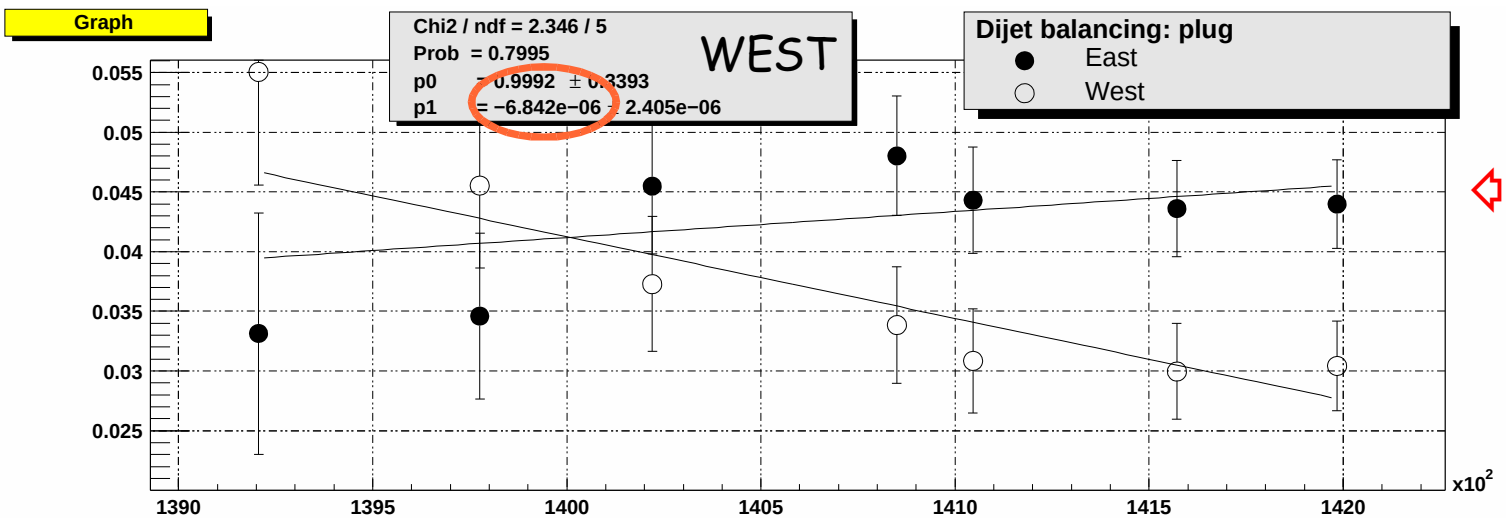
- ☞ needs large statistics ... meantime, group runs into O(100k) events chunks

Time dependence: full plateau

Fit 1.6<|η|<2.8 region in each group

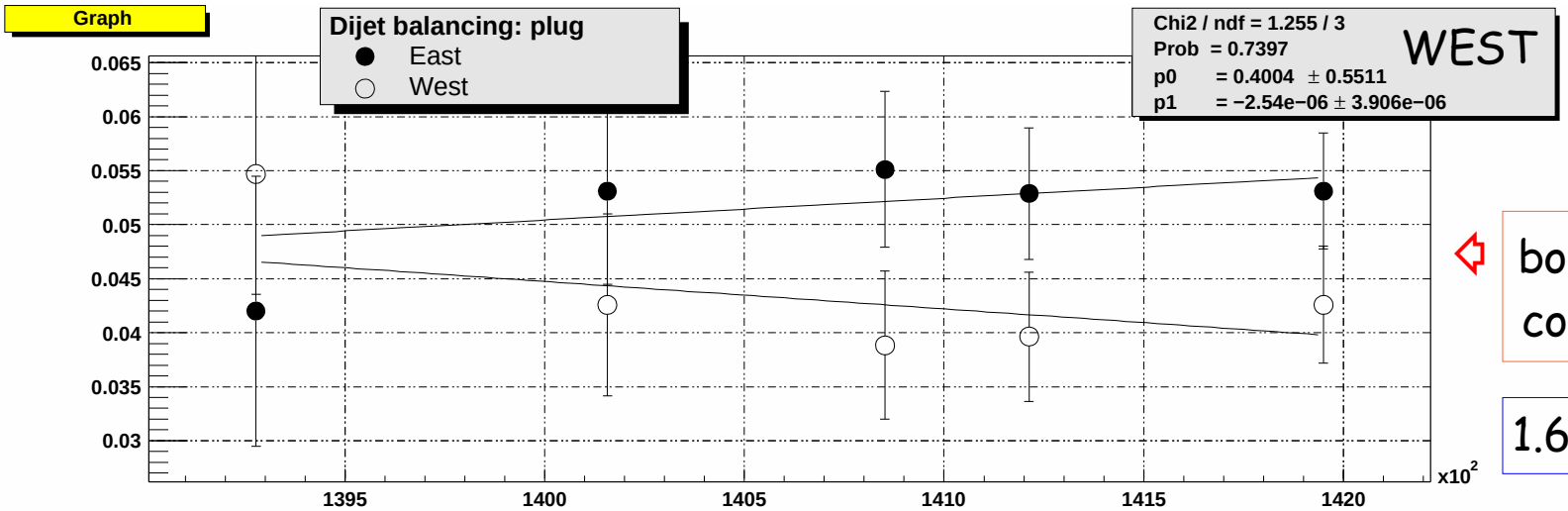
Feb 21–Apr 10
J20 data





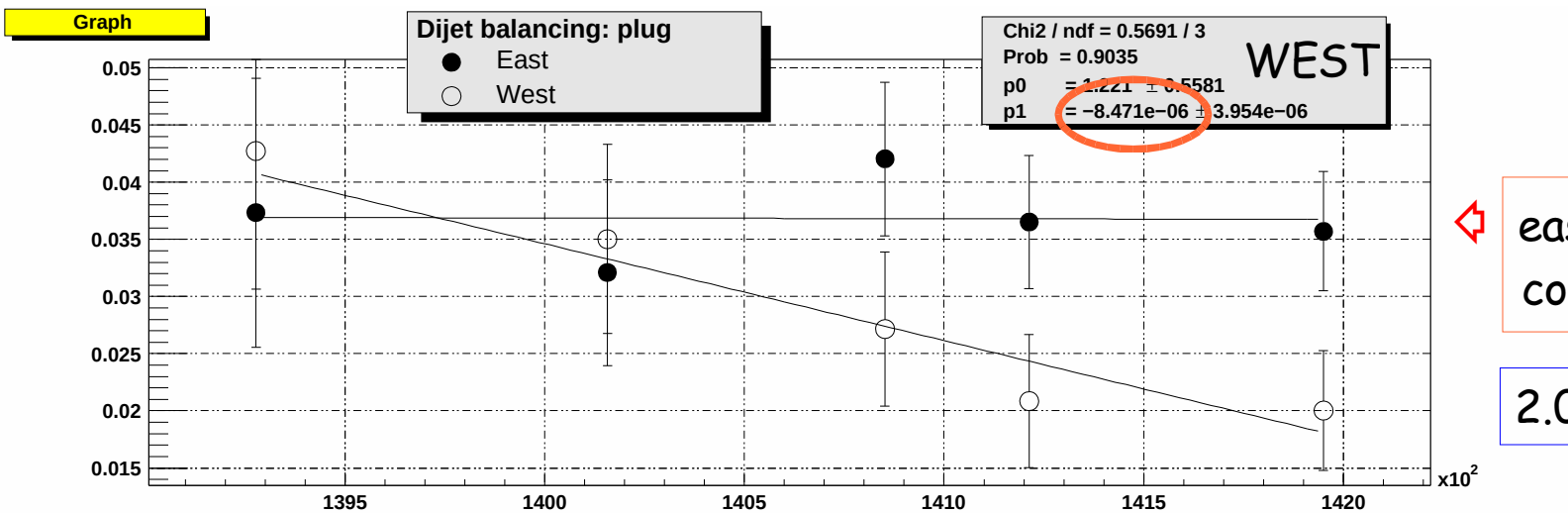
$(2.18 \pm 2.44)\times10^{-6}$ east slope compat. with 0.

Time dependence: low/high η in plug



both slopes compat. with 0.

1.6<|η|<2.0 region



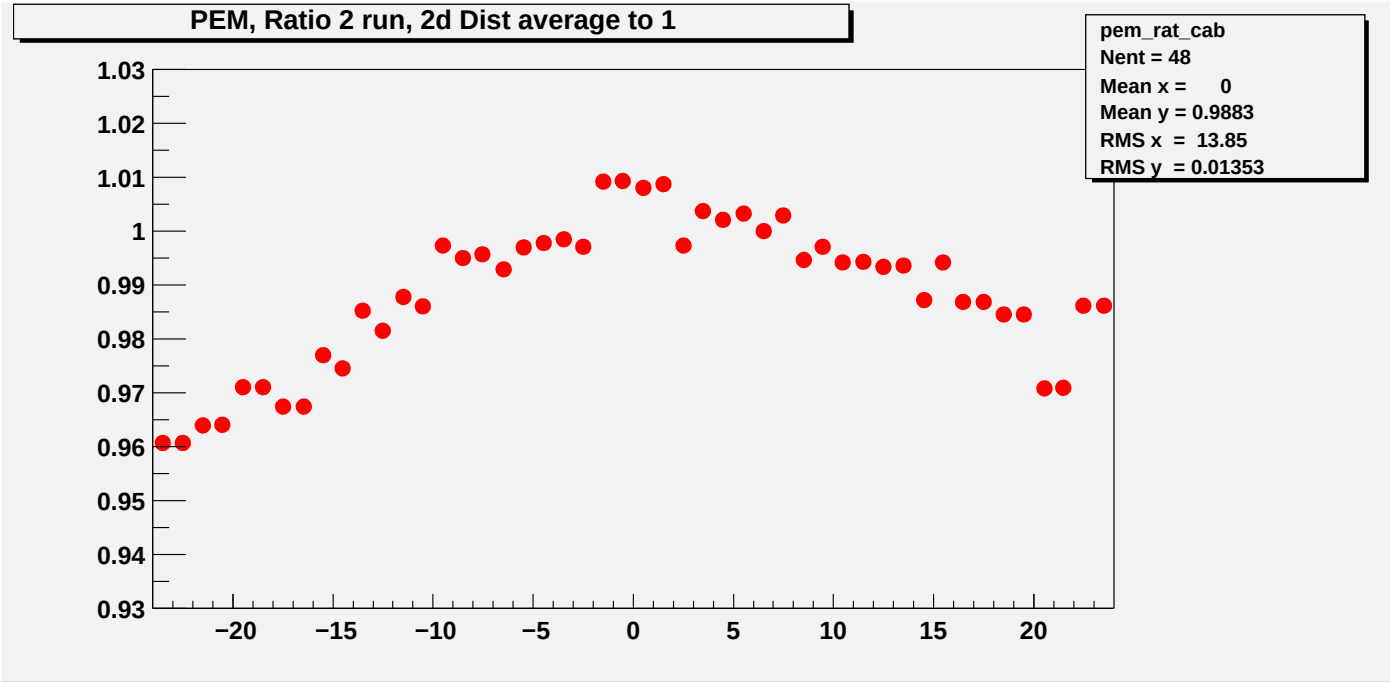
east slope compat. with 0.

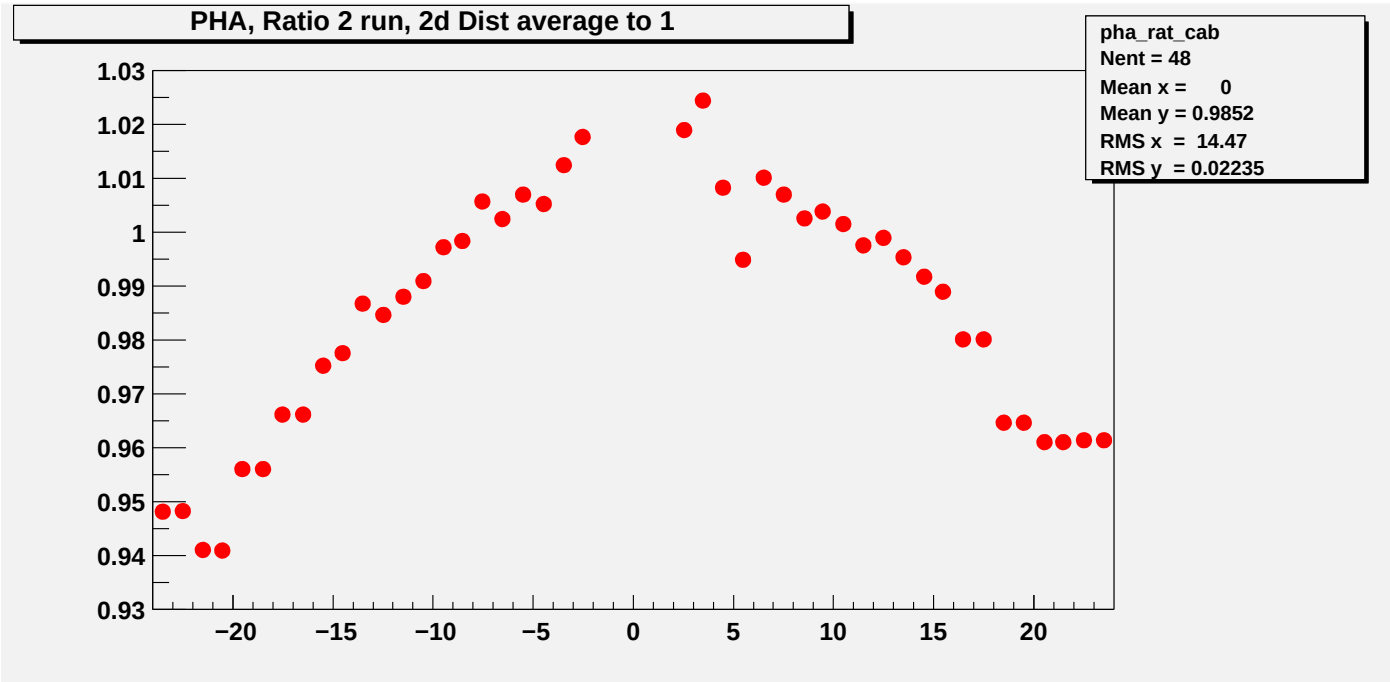
2.0<|η|<2.8 region

high η region drops faster ...

east plug seems constant ?! ☞

Laser runs

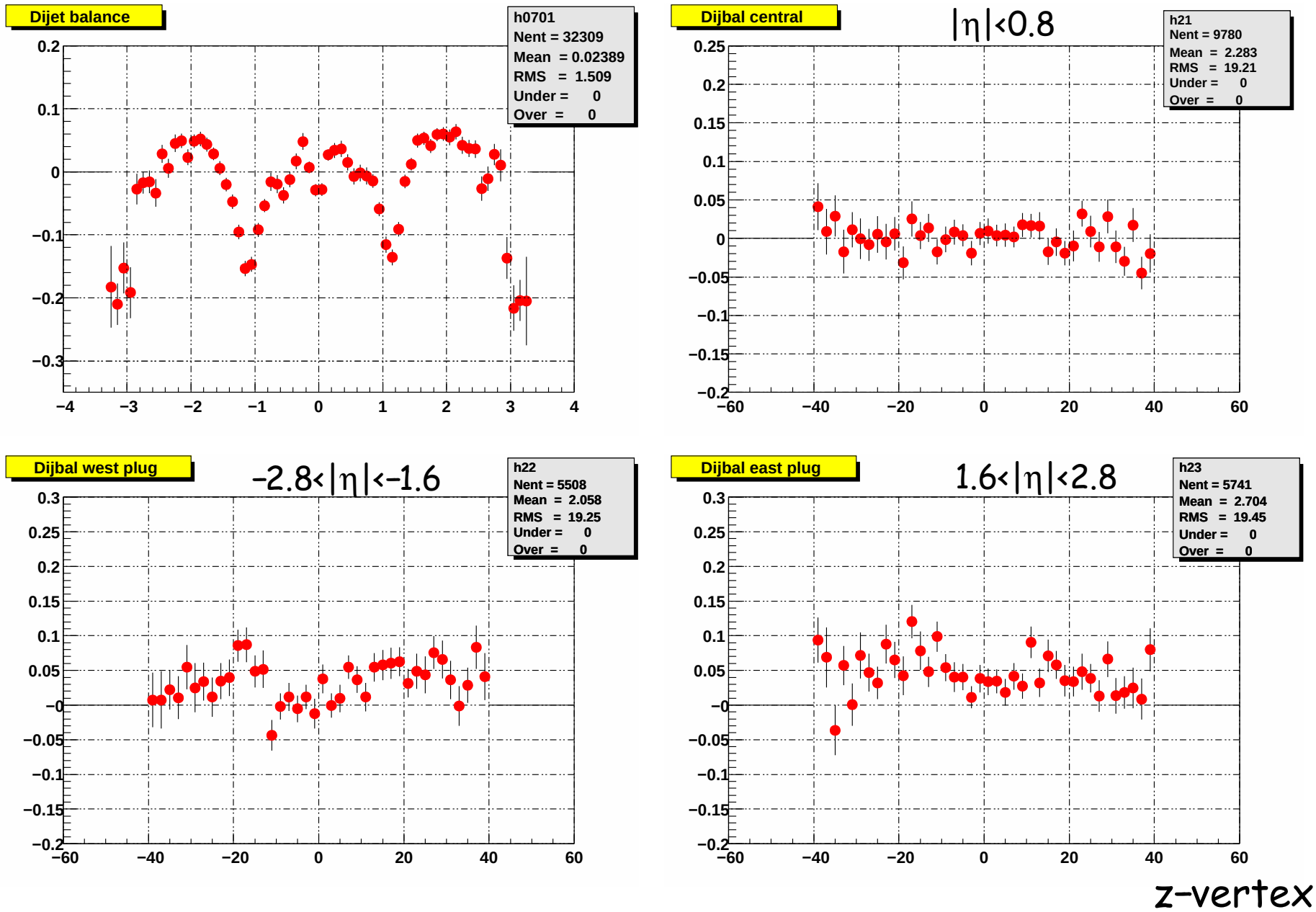




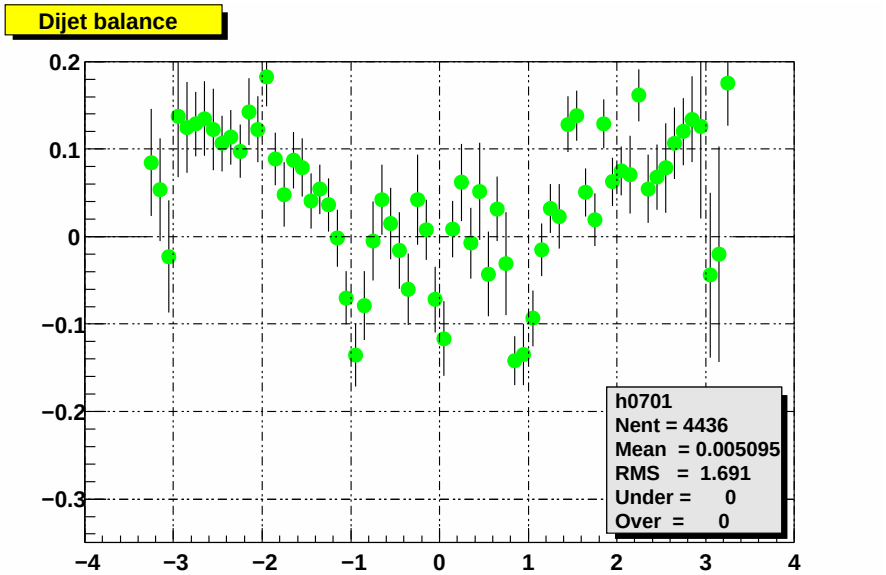
ratio laser runs Feb 21/June 1 (~2× longer period of time)

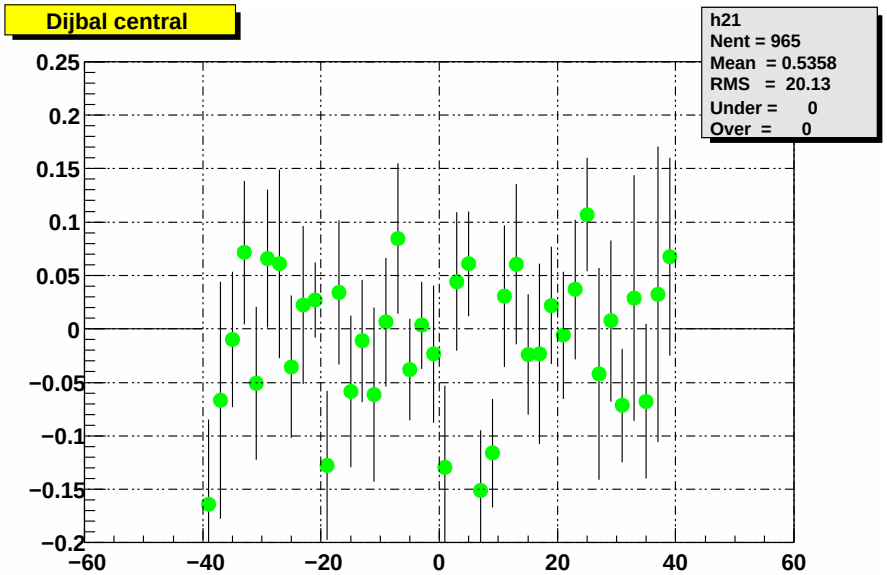
cf Willis' talk last JCOR-mtg

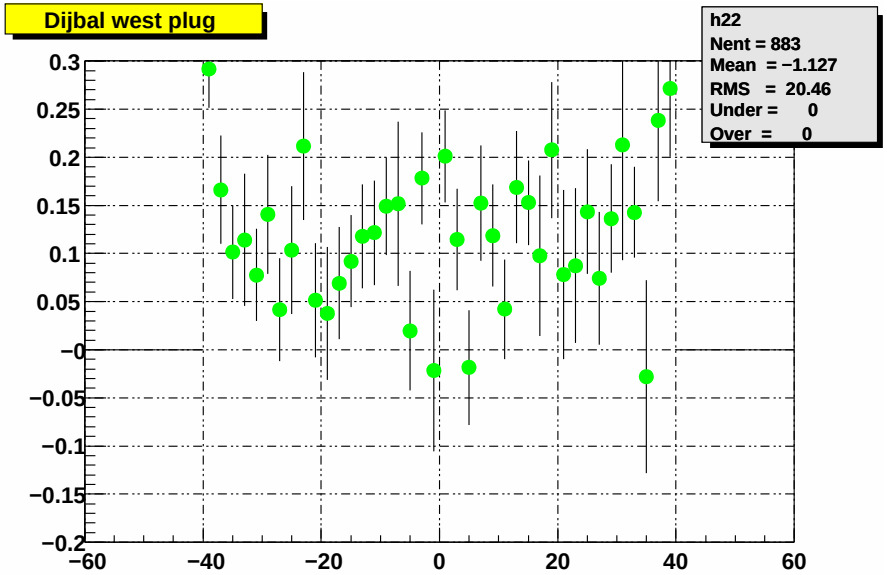
Data Feb 21–Apr 10

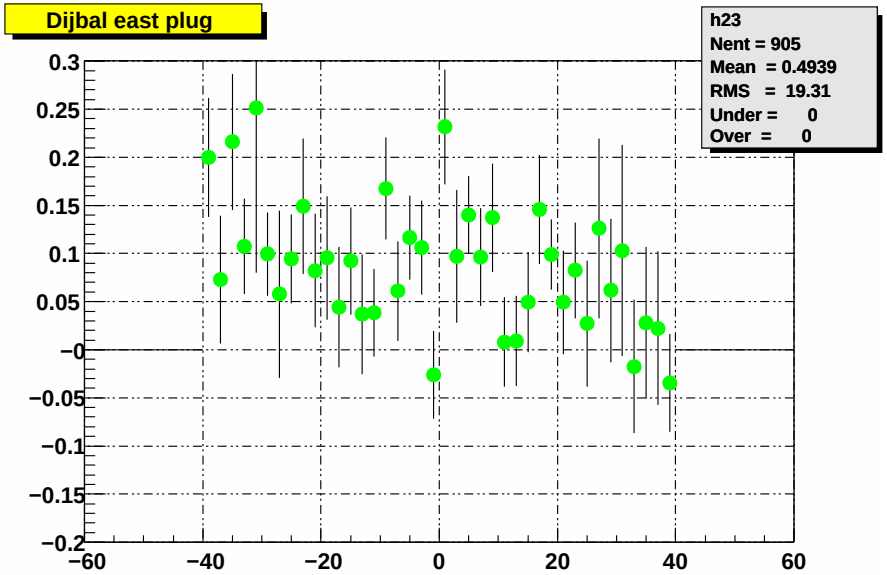


Dijet MC run #85890 (prod. 4.5.3)





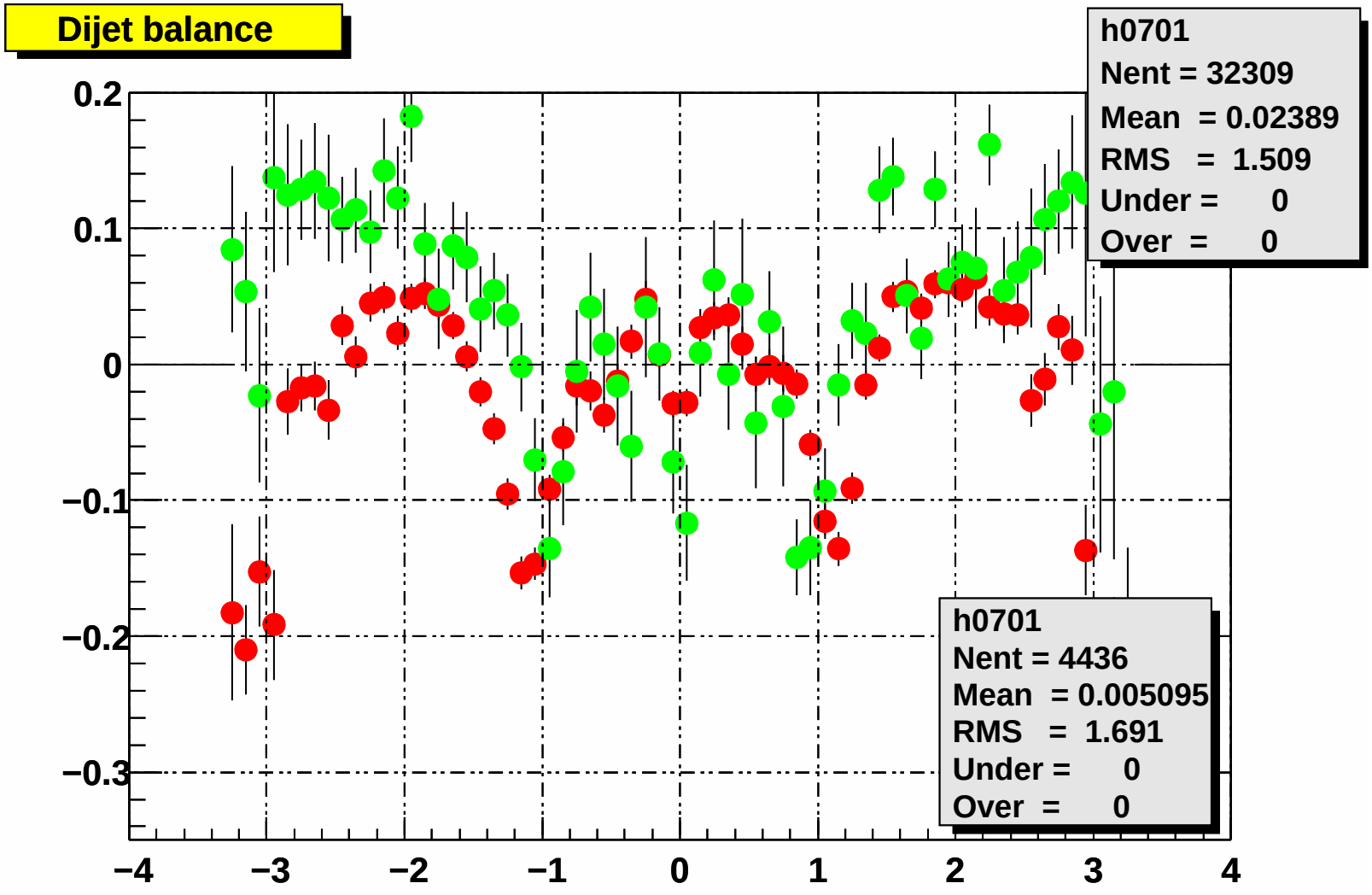




z-vertex

100k events available ... waiting for more data

Remark



MC seems higher ... need to define t_0 for a correction back in time