

Beam Properties from CDF/D0

- X and y beam positions, angles
- Sigmas as a function of z
 - “2 track” method
 - assumes x, y same
 - Factors out experimental resolution
 - From primary vertex fit
 - X and y separately
 - Need to deconvolute experimental resolution
- Online and offline
- www-bd.fnal.gov/sdahomepage/exp_luminosity/lum.html

Positions and Angles

- CDF
 - Available online as ACNET variables
 - In SDA
 - Offline values in CDF calibration database
- D0
 - Online in ACNET in 1-2 months (see slide)
 - Offline database under construction

Beam Size vs Z

- CDF
 - Offline soon to be part of alignment database
 - Issues with deconvolution of SVX resolution
 - Method for us to get information systematically
 - Online from SVT trigger
 - Can't deconvolute beam width from SVT resolution
 - RMS after cuts, not a Gaussian fit
 - will publish anyway if we say so
 - Could possibly do “2 track method”

Beam Size vs Z

- D0
 - “Online” not trigger but online monitoring code
 - Developing a beam line database
 - Will investigate “2 track” method
 - Will add sigmas vs z to online code
 - Very interested in CPMs