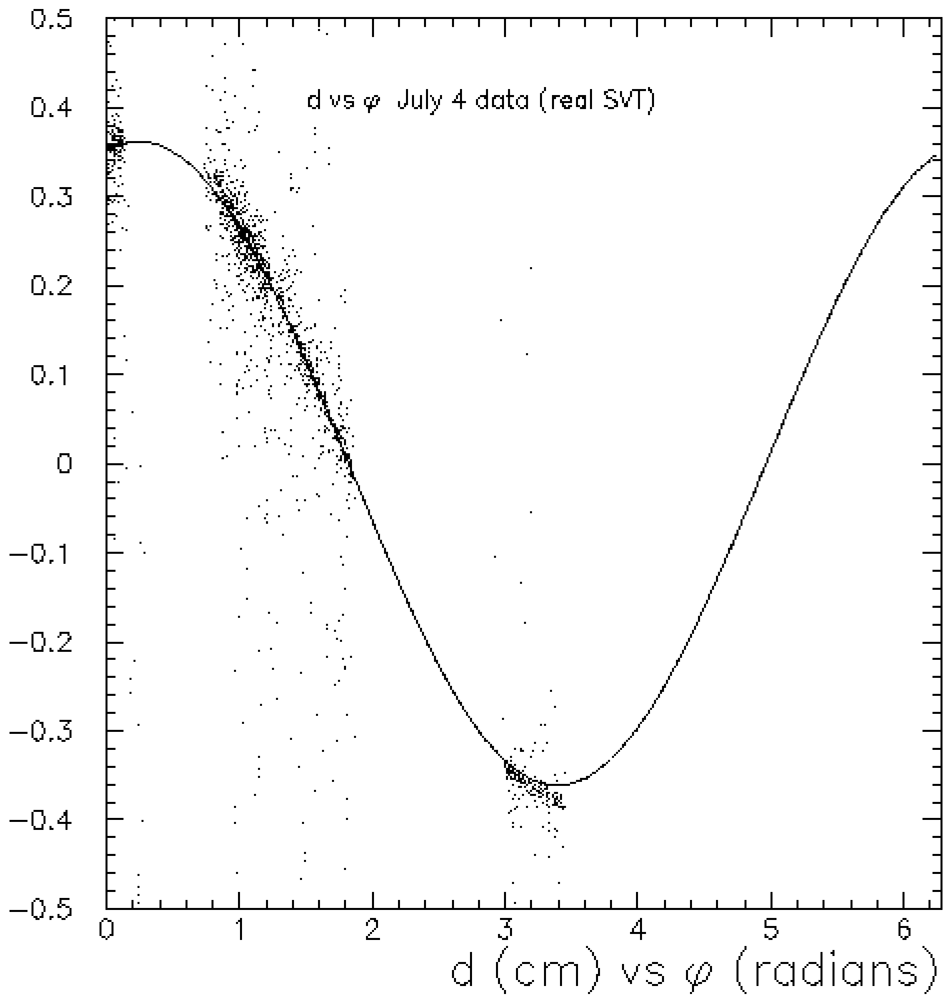
SVT Status and Plan

Bill Ashmanskas, CDF commissioning meeting, 2001-07-12

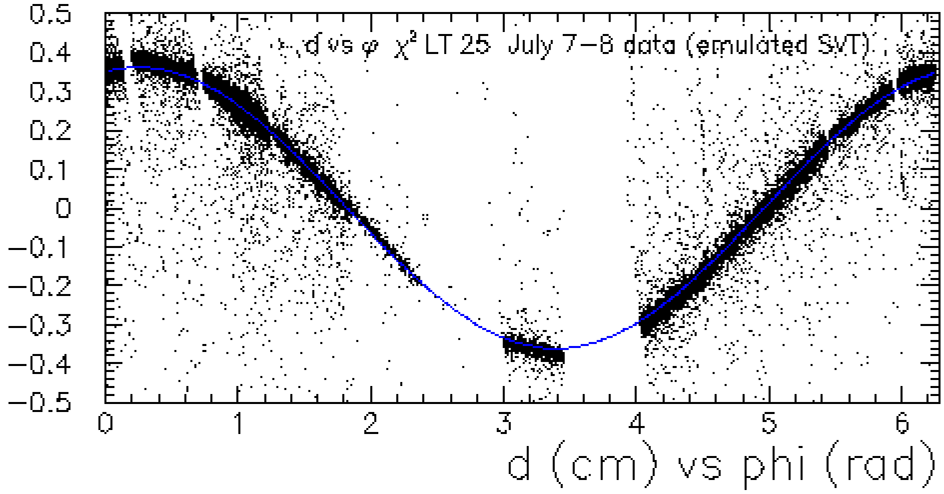
- SVT commissioning highlights:
  - Nov '00:
    - online clustering / track finding (SVX stand-alone)
    - offline fit to hardware hits+roads
  - Apr '01:
    - first on-line track fitting
    - SVX-only fit: σ~110μm, BG from noise hits
  - Jun '01:
    - include XFT tracks in road search: much lower BG
  - Jul '01:
    - include XFT tracks in fit: σ~70μm (expect 30$\oplus$beam)
    - uses nominal alignment, only DPS pedestals
    - all SVT crates now in shift crew's hands
- Work in progress:
  - automatic enable/disable of SVT hardware by R_C, depending on SVX coverage (done but needs test)
  - track down event synchronization problem
  - strive for 100% bit-for-bit emulation, from raw data
  - use databases to manage SVT configuration data
  - lots of software

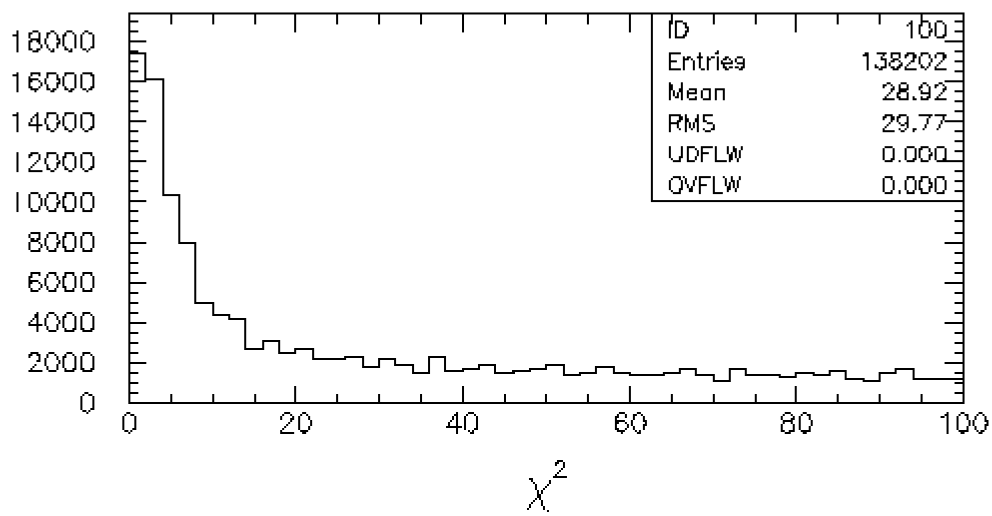
- Next goals:
  - establish SVT→L2 data path
  - continue to develop monitoring/validation
  - improve resolution, efficiency
  - allow SVX layers ≠ 0123
  - deal with beam offset
  - become a trigger input!

- Real SVT, July 4 data, first online SVX+XFT fit



- Emulated SVT, July 7-8 data





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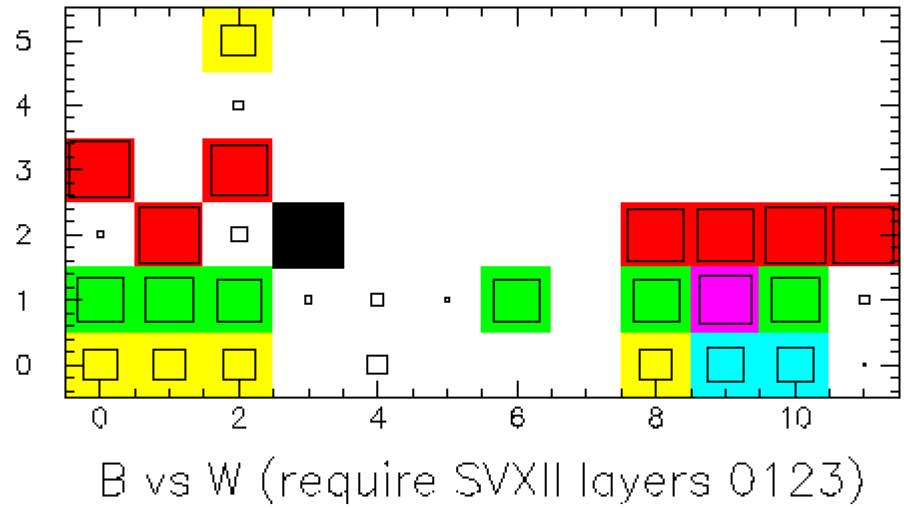

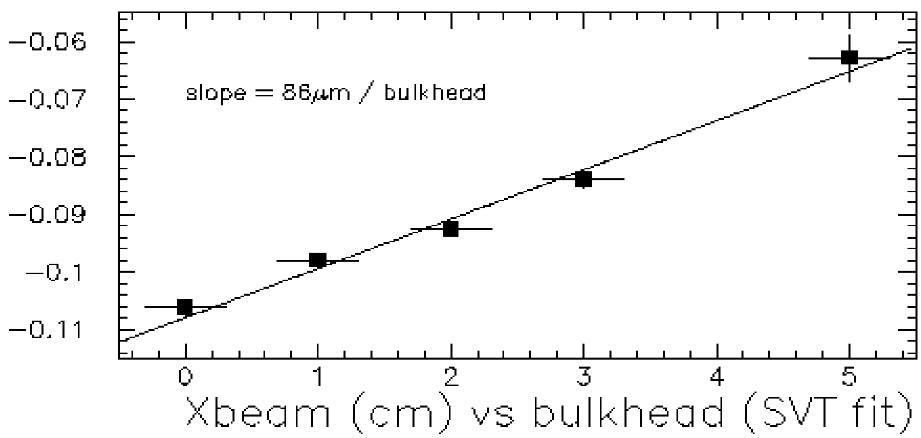

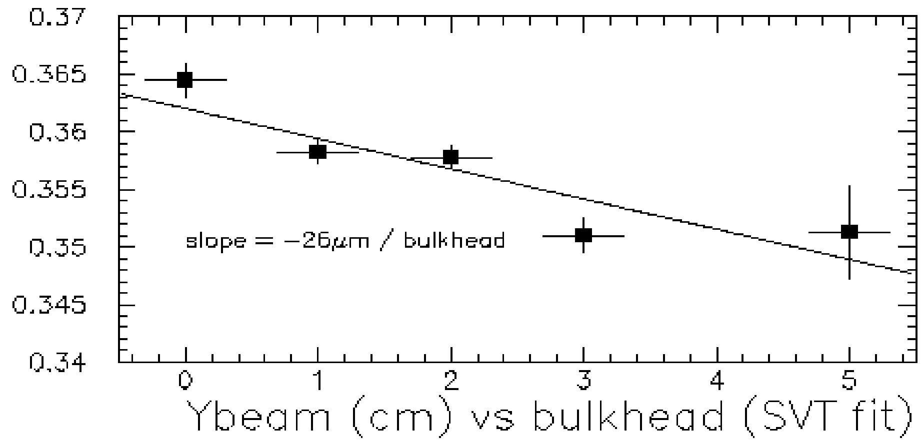

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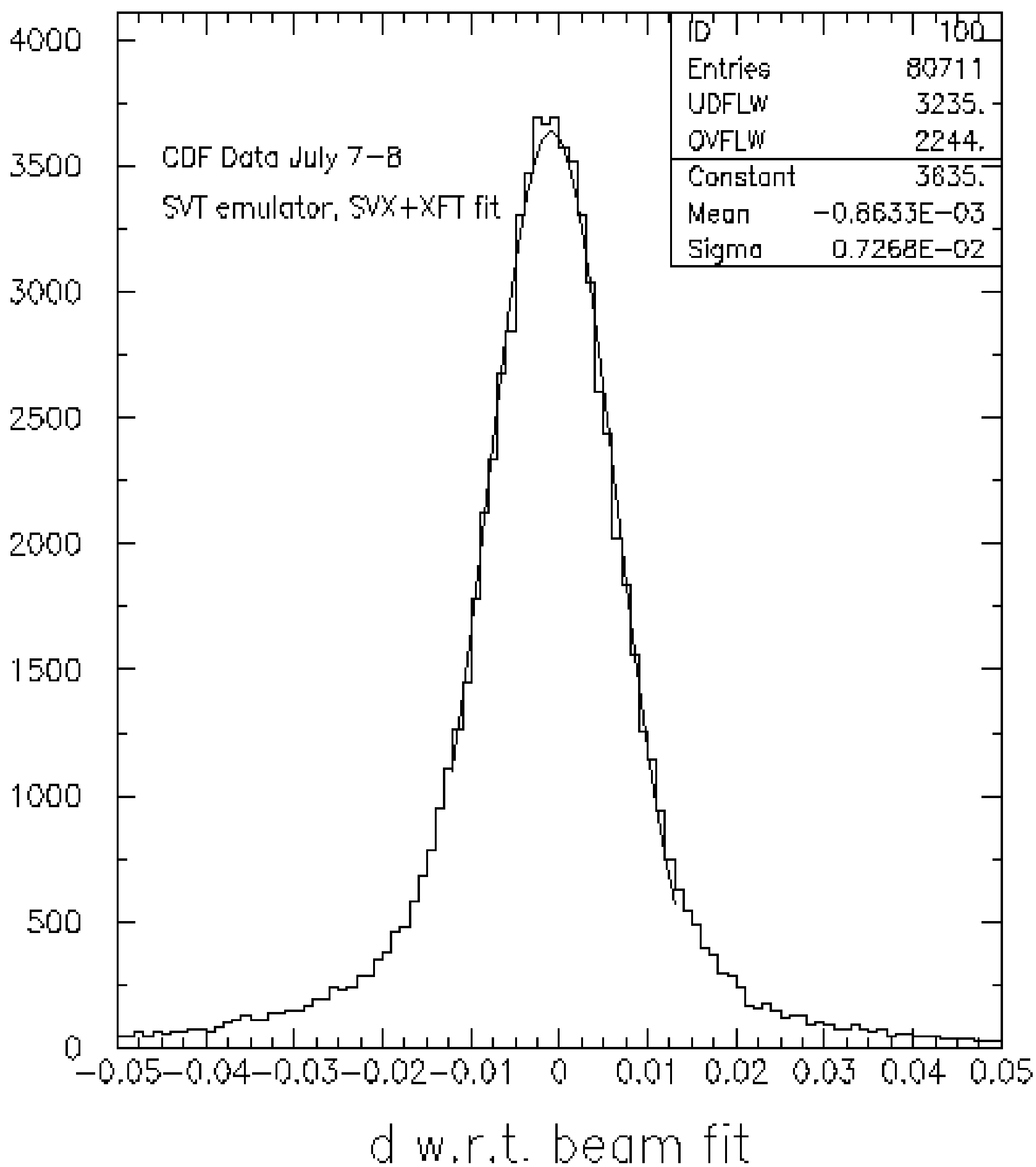

- Emulated SVT, cdfSim single muons