



## SVT monitoring (first line of defense)

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- Identify small set of significant numbers
- Log them automatically at ~fixed time intervals
- Plot them as a function of time
- Group them in one place
- Check them regularly
  - Hourly by shift crew
    - Write very clear instructions for CO's
  - Daily by SVT pager carrier
    - Write daily report (see L2 example)



## Which numbers?

- L2 trigger rates
  - B\_PIP1, B\_CHARM
- SVTSIM failure rate
  - Overall and breakdown by wedge
- Efficiency
  - Overall and breakdown by wedge
  - Denominator: L3 tracks
  - SVX fiducial regions a la Vladimir
- Error bit rate in EE
  - Fraction of events with individual EE bit set
  - Overall and breakdown by board (by SPYMON)
- 3D Beam position
  - $x$ ,  $y$ ,  $dx/dz$ ,  $dy/dz$
- Impact parameter tails
  - Fraction of tracks with  $d > 120 \mu\text{m}$
  - Overall and breakdown by wedge



# Issues we need to address

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1. How do we bring all this data together?
  - Three possible data sources:
    - SPYMON, TRIGMON, SVTMON (offline)
2. The numbers are trigger dependent
  - For stability, we need to specify the exact trigger path(s) we use for each of them
3. Running SVTMON offline:
  - How frequently
  - How much statistics?

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