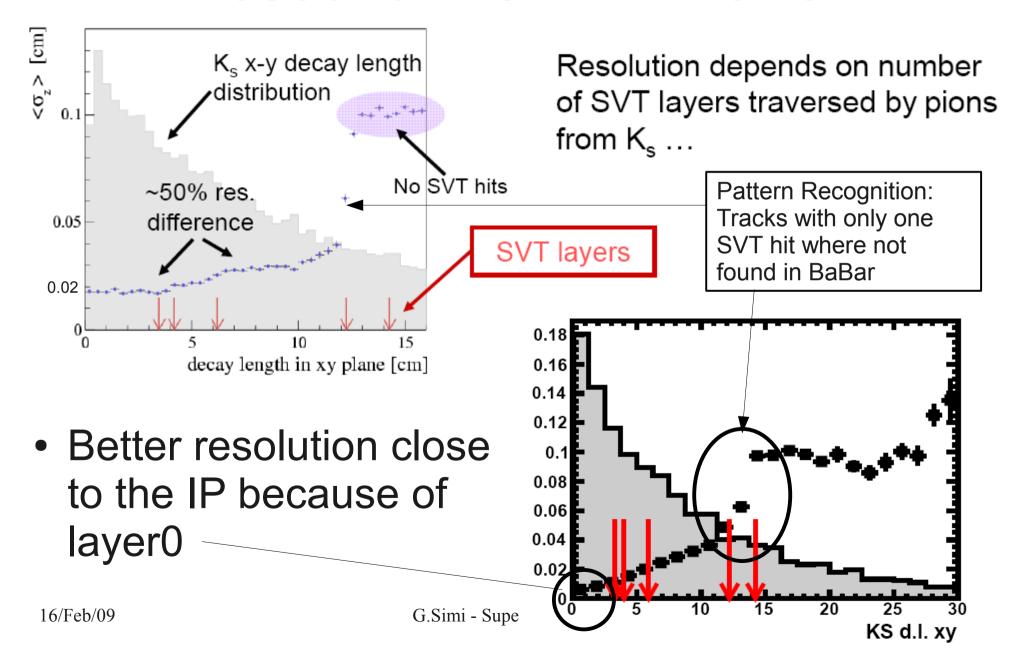
# $B \to K_s \pi^0(\gamma)$ & SVT outer radius : a brief study

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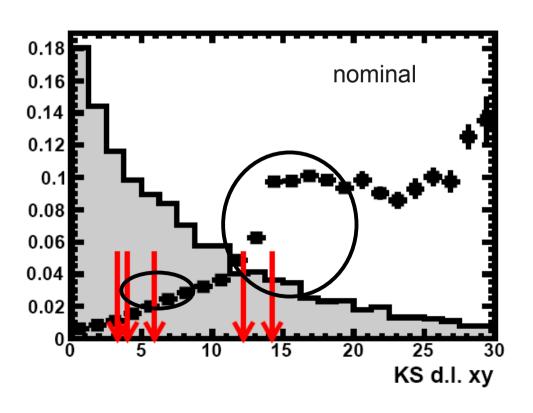


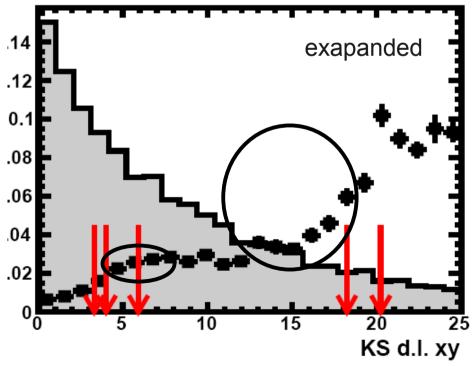
#### Resoution vs f.t. In BaBar

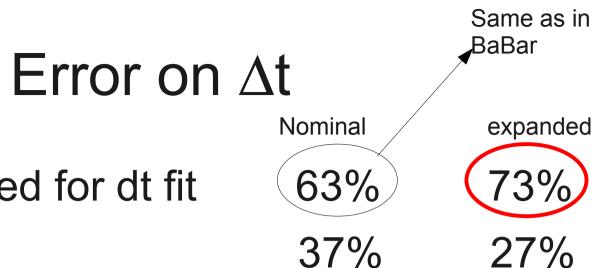


## Filling the gap between SVT and DCH

- Expand L4 and L5 up to maximum allowed:
  - Layer 4: 12.2->17.4
  - Layer 5: 14.2->20.2 (DCH S.T. is at 21.3cm)

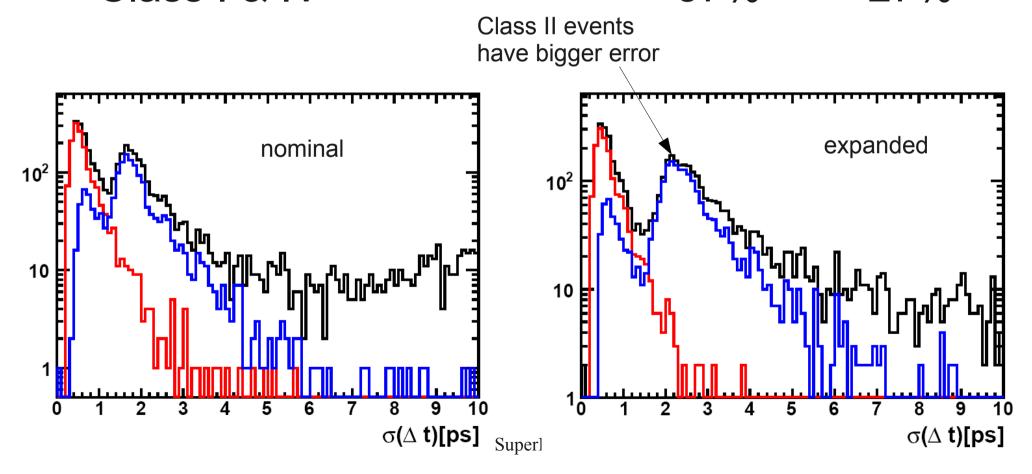




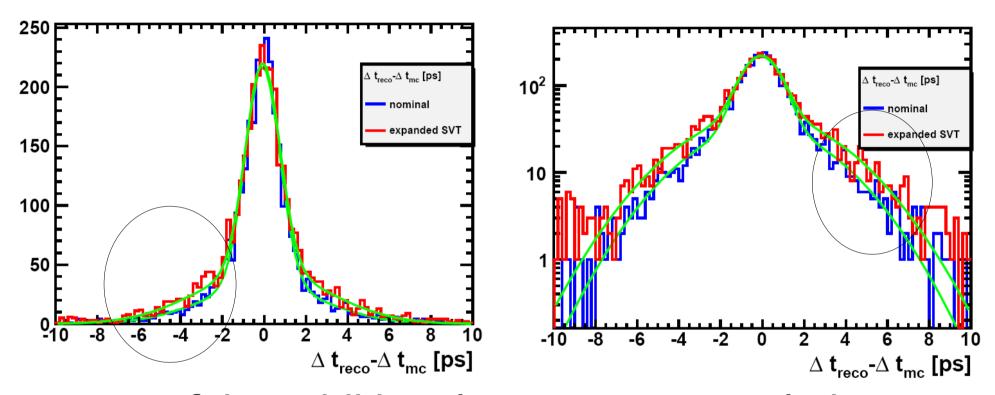


Class I & II: used for dt fit

Class I & IV

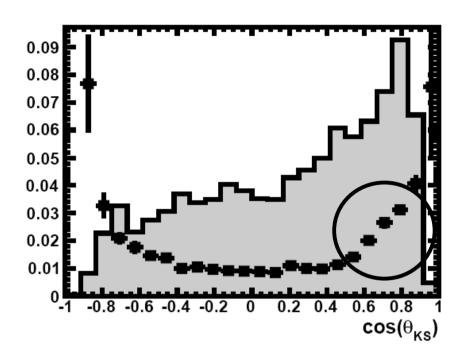


#### ∆t resolution

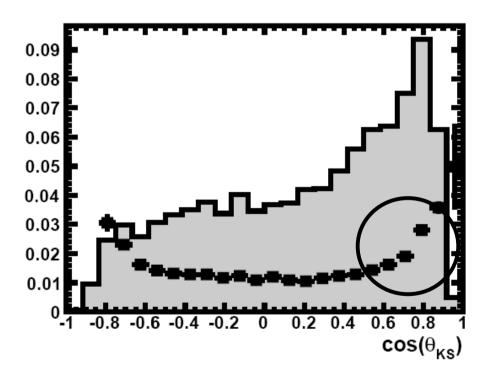


 most of the additional events are populating mainly the tails of the resolution

### Angular dependence



improvement in the forward region



#### Conclusions/Plans

- Brief study of impact of SVT outer radius on benchmark channel  $K_s\pi^0$
- Baseline resolutions as good as BaBar
- Expanded SVT: fraction of usable KS for time dependent study increases
- But additional events have worse resolution than average
- Acceptance in the forw region slightly improves