Study of K_s mass spectra in data and Monte Carlo.

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Information on data and MC files..

- Data (p14 samples): borrowed from *S. Burdin* and *A. Nomerotski*;
4.2 mi. K_s of which 3.6 mi. pass $L_{dcy} > 0.4$ cut.

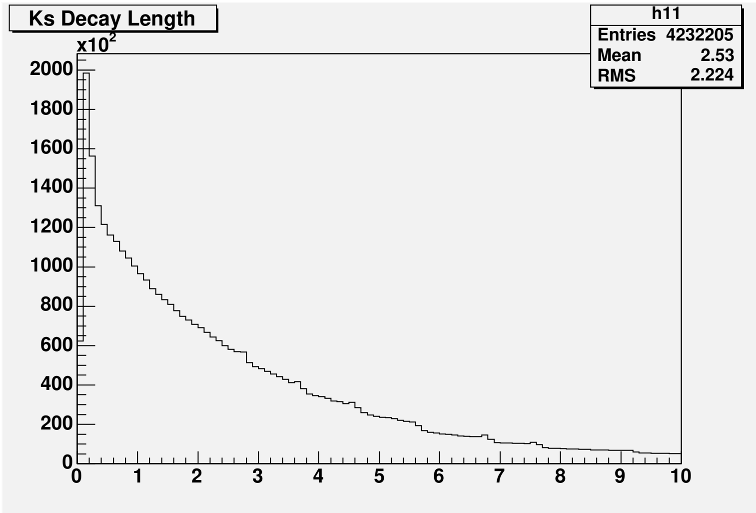
- Monte Carlo (p14 samples): available in SAM and at *B-physics' MC files* page;
155k K_s of which 134k pass $L_{dcy} > 0.4$ cut.

  - $b\bar{b} \rightarrow B+ \; X \rightarrow J/\psi \; K+$ anything ($J/\psi \rightarrow \mu^+\mu^-$)
  99,250 events generated using pythia.
  - $b\bar{b}$ (from MSEL=1) and mixing x_d=0.775, x_s=20
  103,250 events generated using pythia.
  - $b\bar{b}$ and mixing x_d=0.775, x_s=20
  266,250 events generated using pythia.
  - all $B \rightarrow D_0 \; \mu \; X$ decays for $\bar{B}_0$, B^-, $\bar{B}_s$;
  with mixing x_d=0.73, x_s=25.
  50,000 events generated using pythia.
  - all $B \rightarrow D_0 \; \mu \; X$ decays for $\bar{B}_0$, B^-, $\bar{B}_s$;
  with mixing x_d=0.73, x_s=25.
  111,000 events generated using pythia.
  - $b\bar{b} \rightarrow J/\psi$ + anything ($J/\psi \rightarrow \mu^+\mu^-$)
  112,250 events generated using pythia.

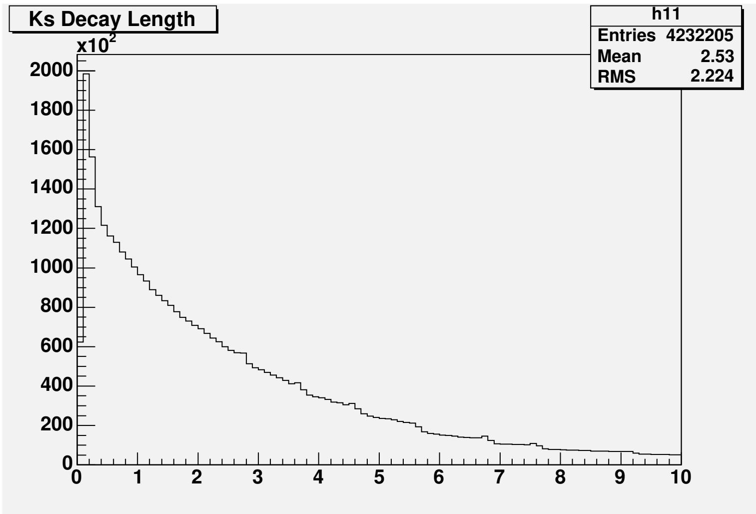
- $b\bar{b}$ with msel1, set4 SAM-defname: request-8101-tmb.
  50k events generated using pythia.
- $b\bar{b}$ with msel1, set3 SAM-defname: request-8095-tmb.
  50k events generated using pythia.
- $b\bar{b}$ with msel1, set2 SAM-defname: request-8094-tmb.
  50k events generated using pythia.

$Decaylength(K_s),\ L_{dcy}$

- Data (4.2 mi. events.)

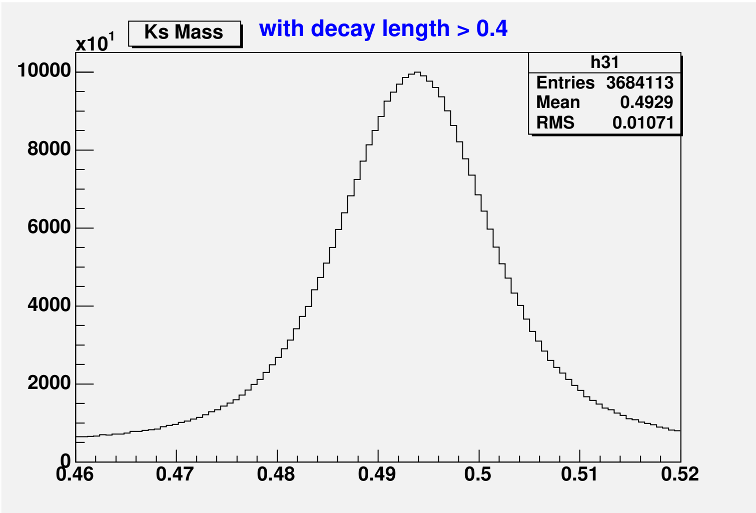


- MC (155 k events.)

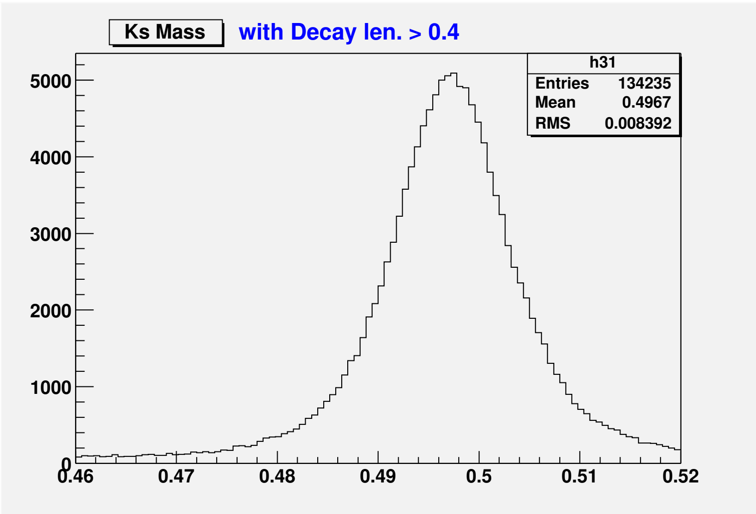


M(K_s)

- Data (3.6 mi. events after $L_{dcy} > 0.4$.)

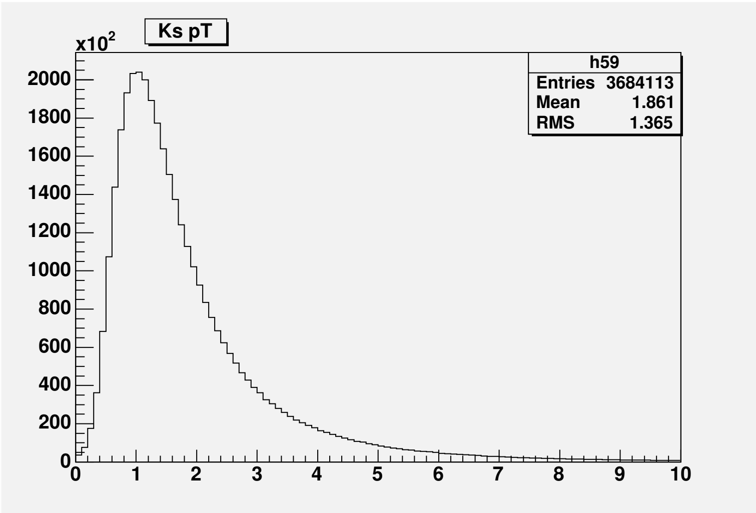


- MC (134 k events after $L_{dcy} > 0.4$.)

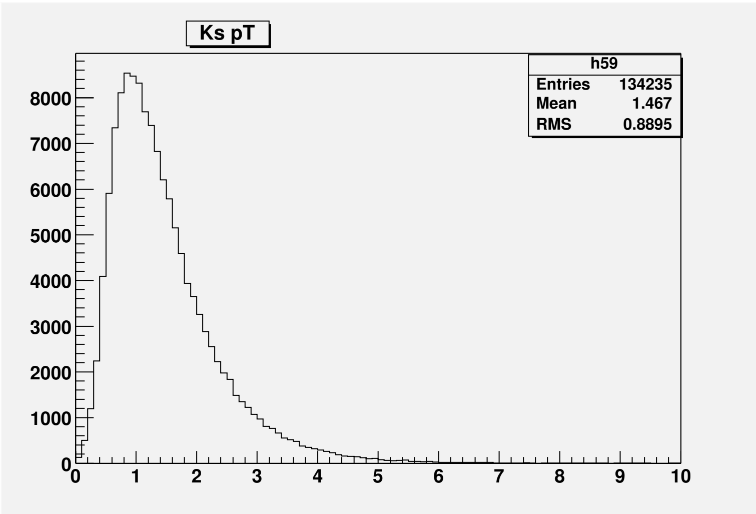


$p_T(K_s)$

- Data (3.6 mi. events after $L_{dcy} > 0.4$.)

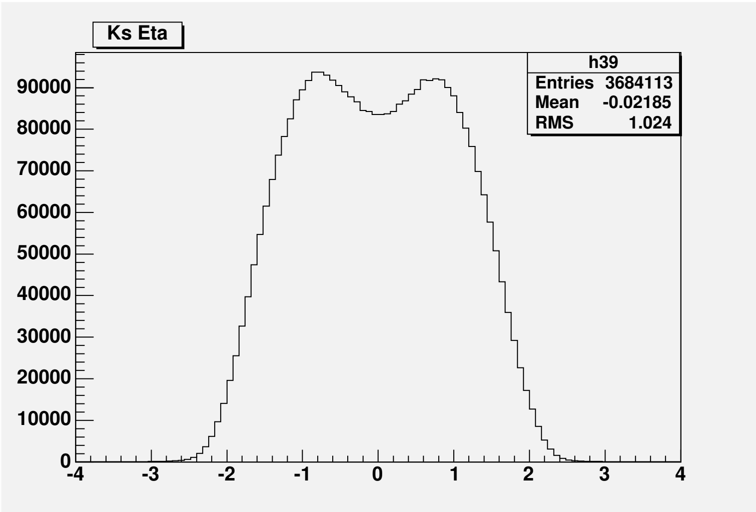


- MC (134 k events after $L_{dcy} > 0.4$.)

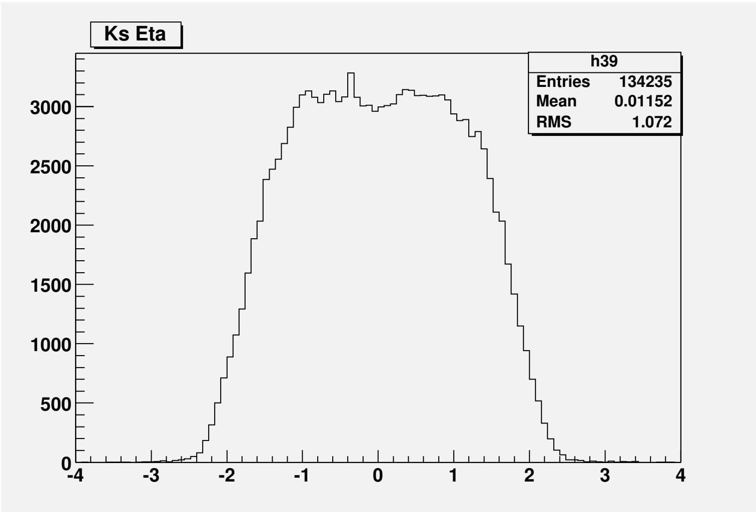


$\eta(K_s)$

- Data (3.6 mi. events after $L_{dcy} > 0.4$.)

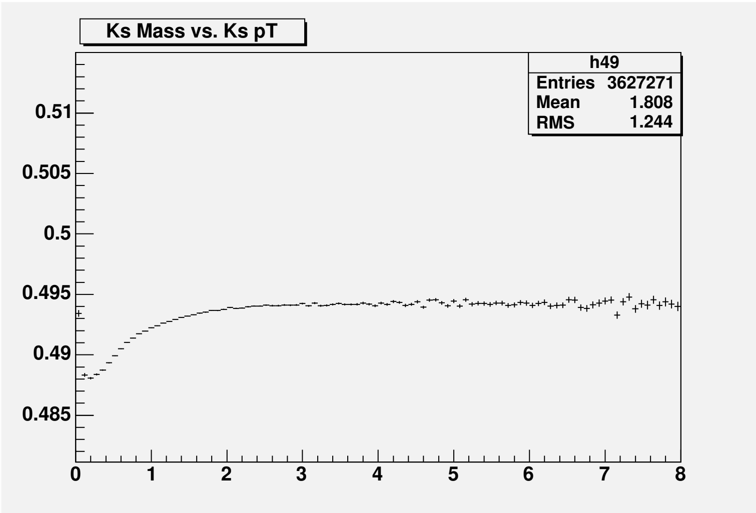


- MC (134 k events after $L_{dcy} > 0.4$.)

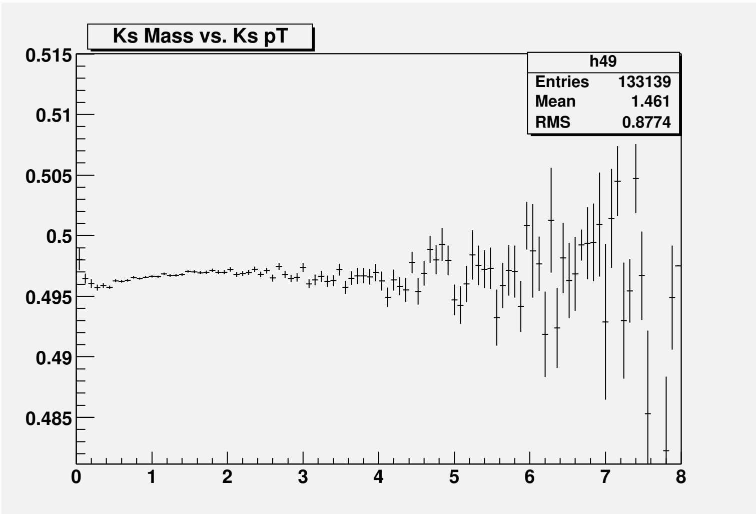


M(K_s) vs. $p_T(K_s)$

- Data (3.6 mi. events after $L_{dcy} > 0.4$.)

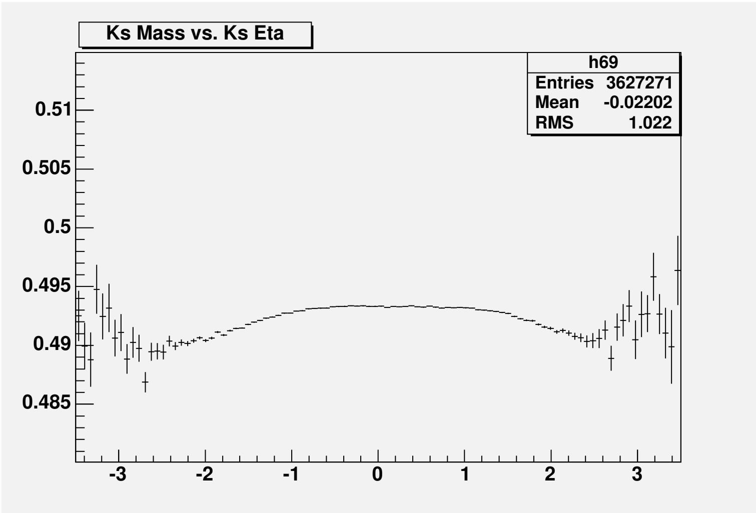


- MC (134 k events after $L_{dcy} > 0.4$.)



M(K_s) vs. $\eta(K_s)$

- Data (3.6 mi. events after $L_{dcy} > 0.4$.)



- MC (134 k events after $L_{dcy} > 0.4$.)