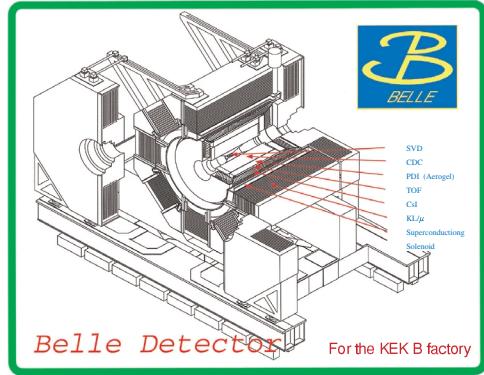
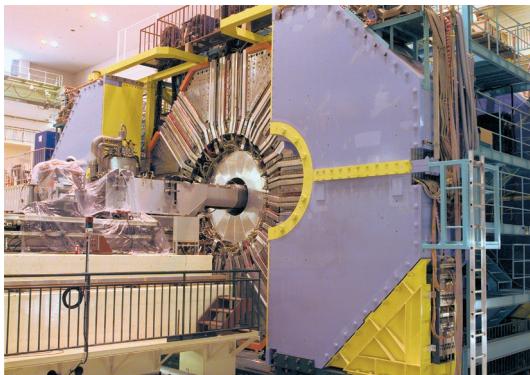
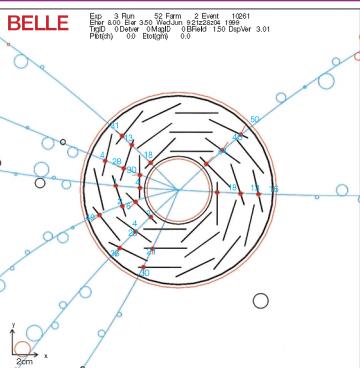


BELLE at KEKB

BELLE collaboration is an international collaboration with 300 physicists from over 10 countries. The BELLE detector started taking data in May 1999.



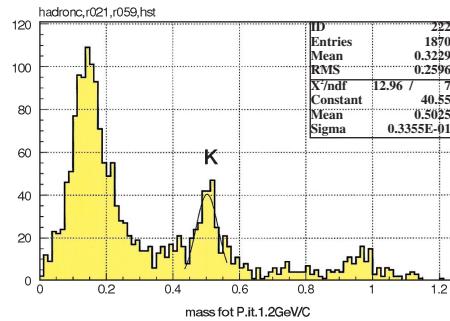
The BELLE detector elements and their performance



Silicon Vertex Detector (SVD)

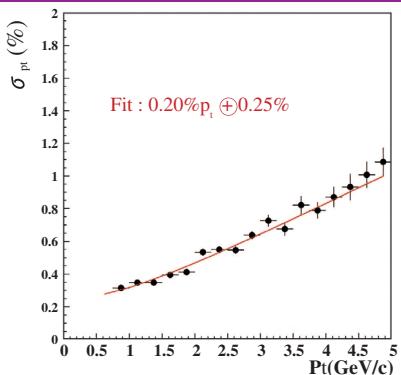
3-layer DSSD, matching eff.=96%,
impact param. res. $\sigma(r\phi)=35\mu\text{m}$, $\sigma(z)=44\mu\text{m}$

Hadron PID by BELLE TOF



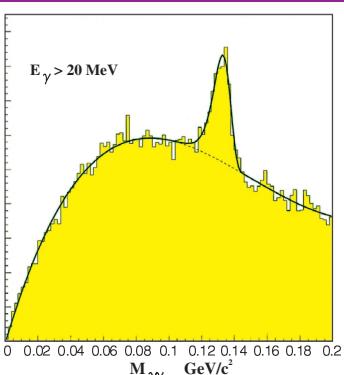
Time-of-Flight counter (TOF)

plastic scintillators+FM-PMTs, matching eff.=90%,
 $\sigma_\tau=120\text{ psec}$



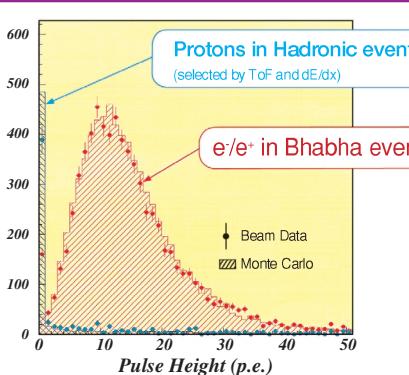
Central Drift Chamber(CDC)

Small-cell drift chamber in 1.5T
 $\sigma(r\phi)=135\mu\text{m}$, $\sigma(dE/dx)=6.7\%$



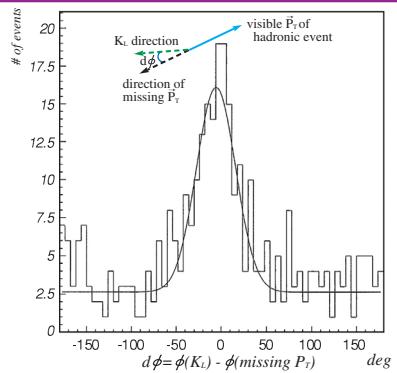
EM Calorimeter(ECL)

8736 CsI (TI) crystals+photo-diodes $\sigma(E\gamma)/E\gamma=2.6\%$,
 $\sigma(M\pi^0)=5.3\text{ MeV}$



Aerogel Cherenkov Counter(ACC)

1188 aerogel+FM-PMT's
 $\langle N_{\text{p.e.}} \rangle = 15.7$ for $\beta=1$ particle $>3\sigma$ p/K separation



K_L and μ Detector (KLM)

15 layers x (RPC+4.7cm Fe)
 $\epsilon_\mu=90\% @>1\text{ GeV}$ $\epsilon_{KL}=40\% @>1\text{ GeV}, 70\% @2.5\text{ GeV}$