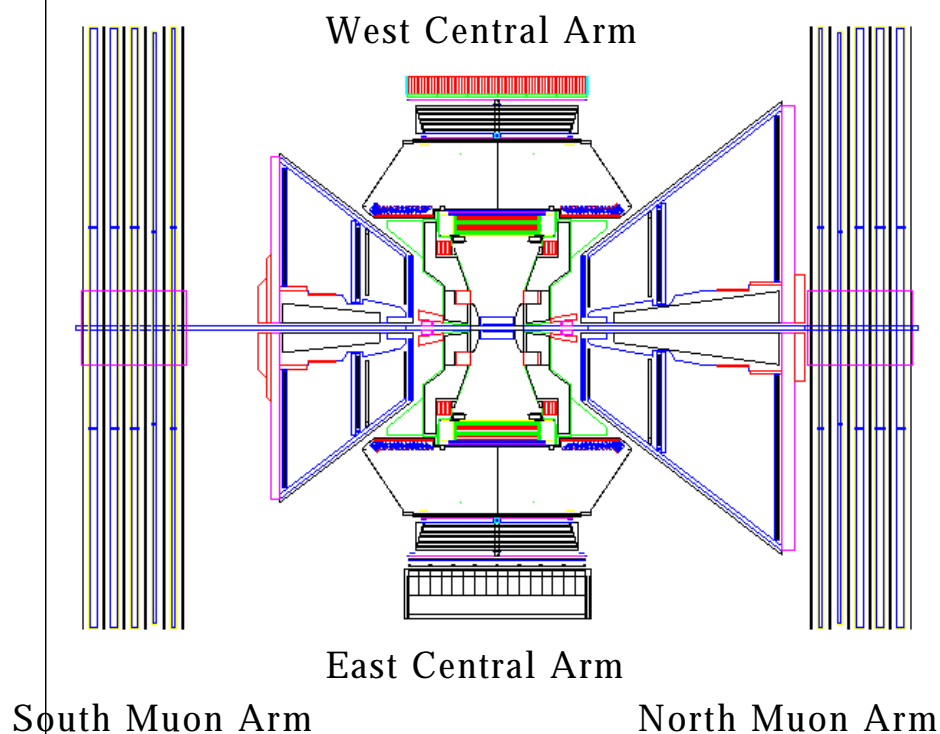




PHENIX Experiment at BNL-RHIC

- primary goal: search for Quark-Gluon Plasma phase produced in Au+Au collisions at $\sqrt{s} = 200$ GeV at BNL-RHIC
- world-wide collaboration for wide variety of physics

PHENIX : complex apparatus to measure
photon / electron / muon / hadron



*CNS Tokyo, Hiroshima U., KEK, Kyoto U.,
NIAS, RBRC, RIKEN, TITech, U.Tokyo,
U.Tsukuba, Waseda U.*

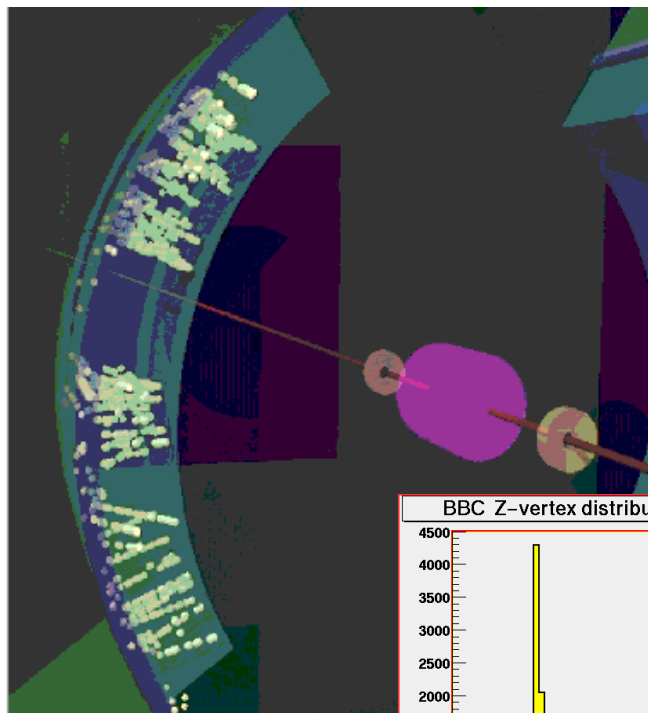
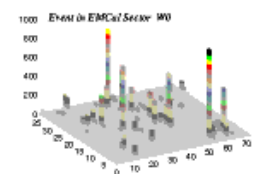
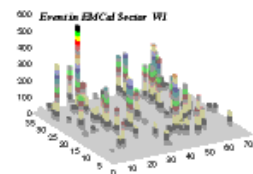
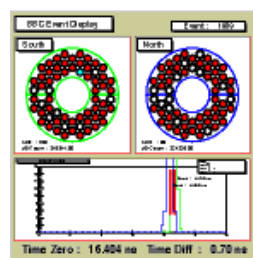
~ 450 collaborators from 13 countries/areas





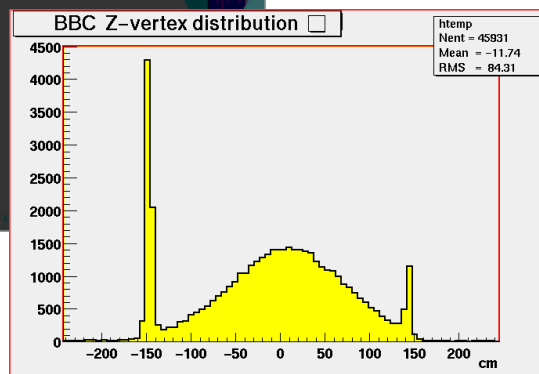
First Physics Run at RHIC/PHENIX

- Au+Au at $\sqrt{s} = 56$ GeV and 130 GeV
- first collision at RHIC/PHENIX observed on June 15, 2000
- ~ 10 % of design luminosity achieved
- ~ 3 million minimum-bias events ($\sim 0.5 \mu\text{barn}^{-1}$) recorded on tape

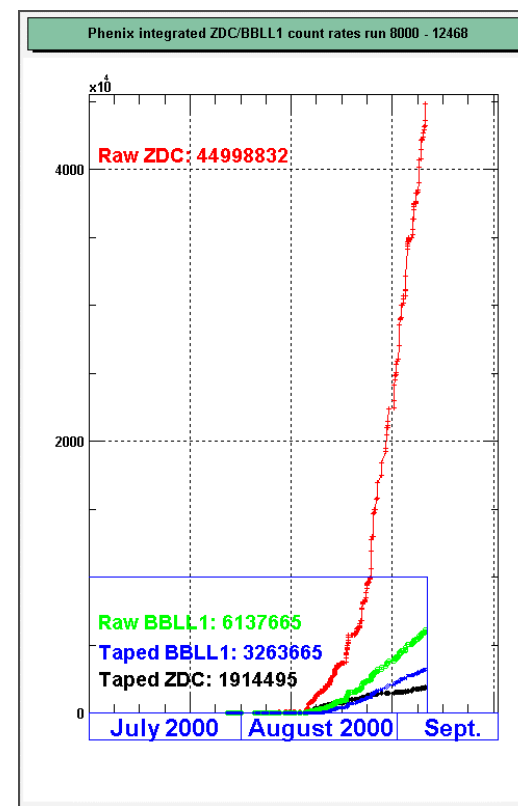


first collision event published in BNL bulletin

vertex distribution measured with BBC
(A.Enokizono, Horishima U.)

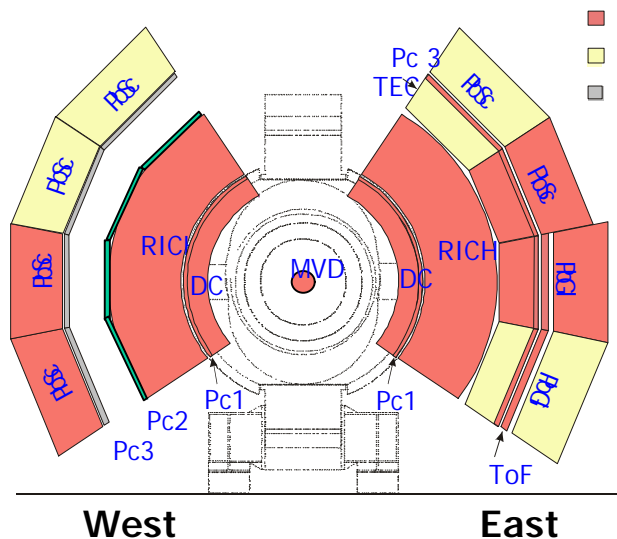


integrated counts of triggers





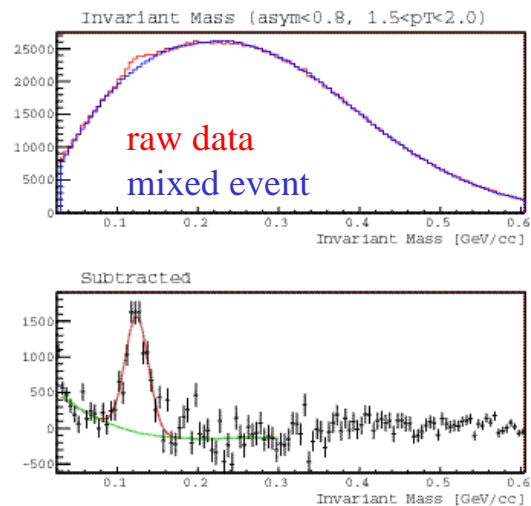
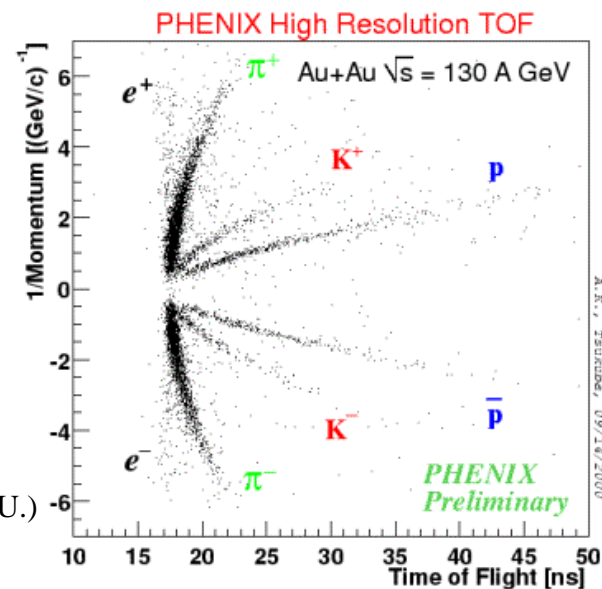
PHENIX Performance in 2000



- Detector instrumented
- Detector installed
- Install in summer 2000

PHENIX configuration in 2000

PID with ToF
(A.Kiyomichi, Tsukuba U.)



RICH ring
(K.Shigaki, KEK)

invariant mass peak of π^0 reconstructed with PbSc
(K.Oyama, CNS Tokyo)

