

Analysis plans:

**K*(892) production
in central Pb-Pb collisions
at 20, 30, 40, 80, 158 AGeV**

Robert Korus

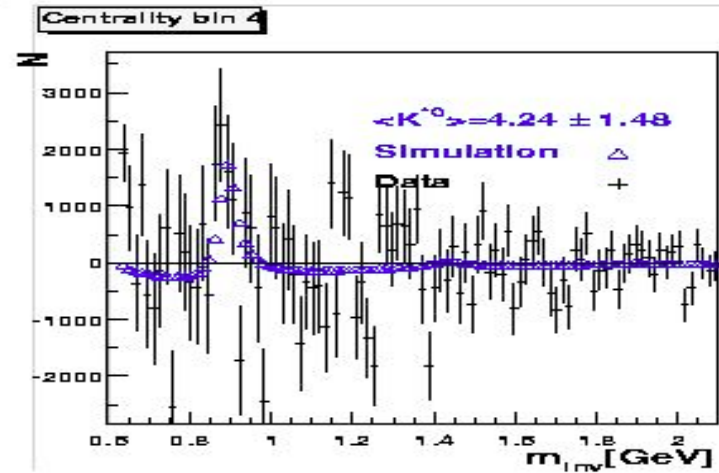
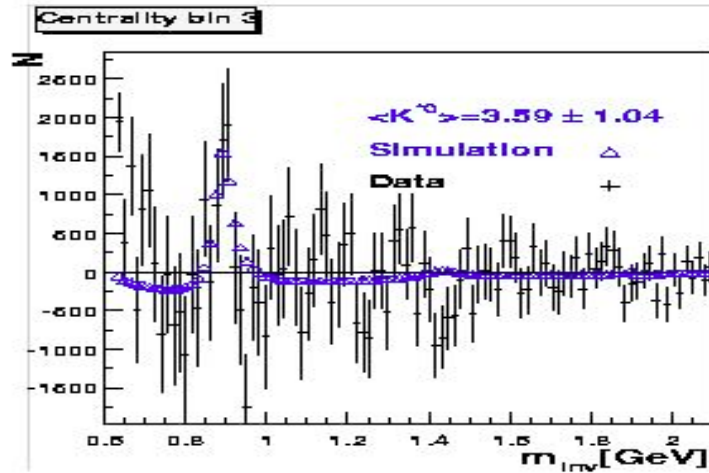
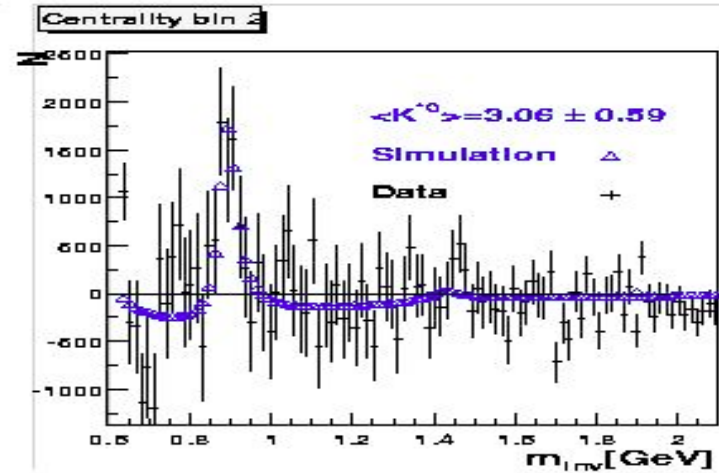
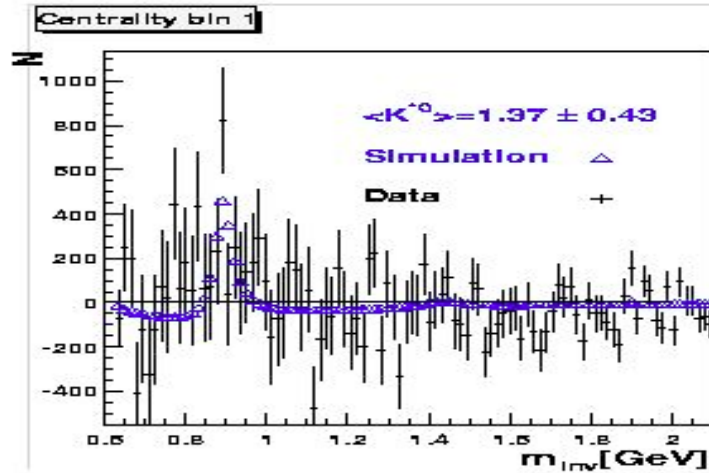
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-status at 158 AGeV
-work plan

Status at 158 AGeV

- Th. Sammer: Production of the K^* and anti K^* mesons in pp and PbPb collisions at the CERN SPS
- V. Friese: Production of Strange Resonances in C+C and Pb+Pb collisions, prepared for 15th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions (QM 2001)
- Unpublished results of In Kwon Yoo on K^* production in central PbPb collisions

Thomas Sammer's results



Thomas Sammer's results

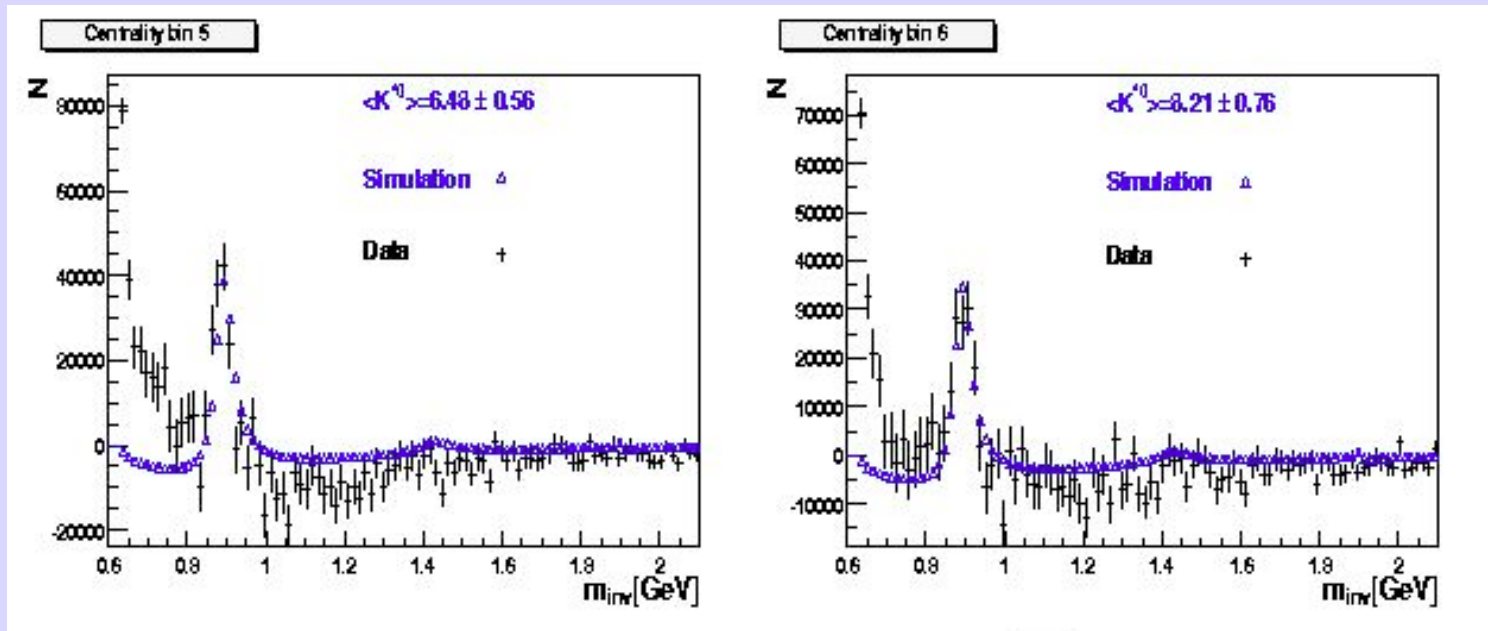


Fig. 1. Background subtracted invariant mass spectra of the anti K^* for the six centrality bins in PbPb collisions. The bin nr 6 is for the most central collisions.

Thomas Sammer's results

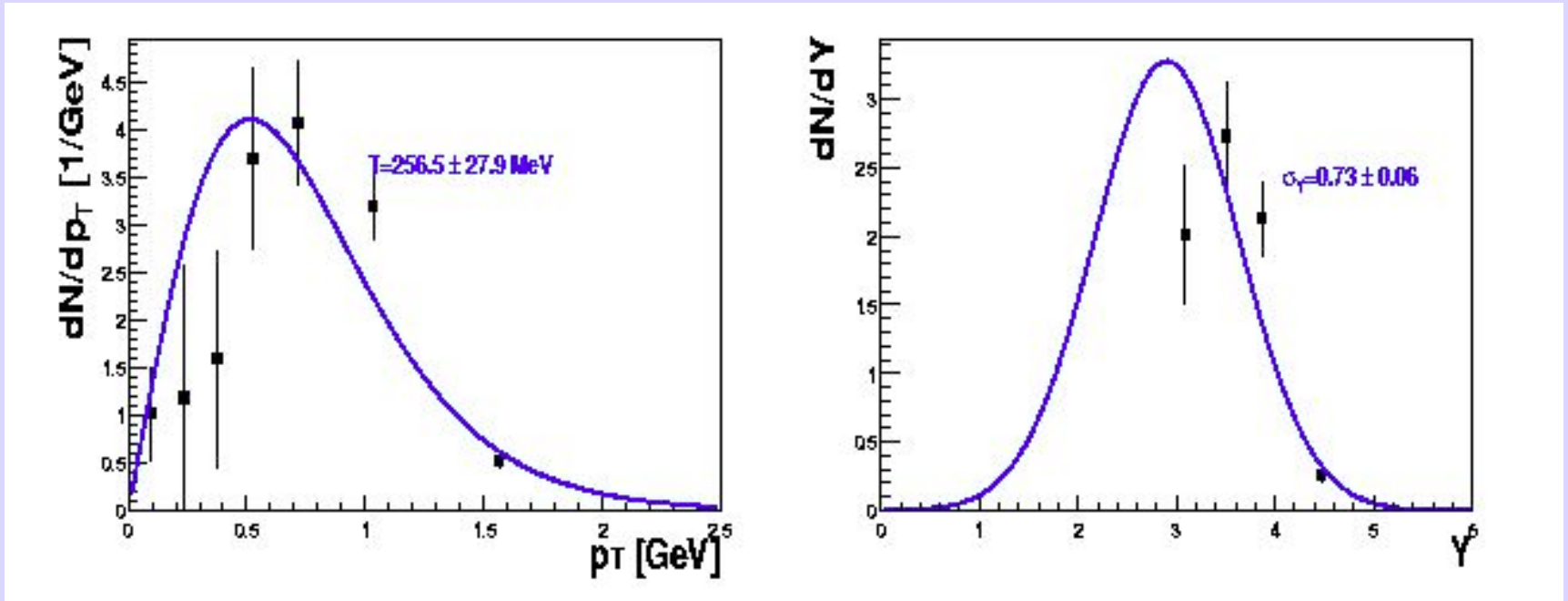


Fig. 2. p_T - and y - distributions for the anti K^* in central PbPb events

Thomas Sammer's results

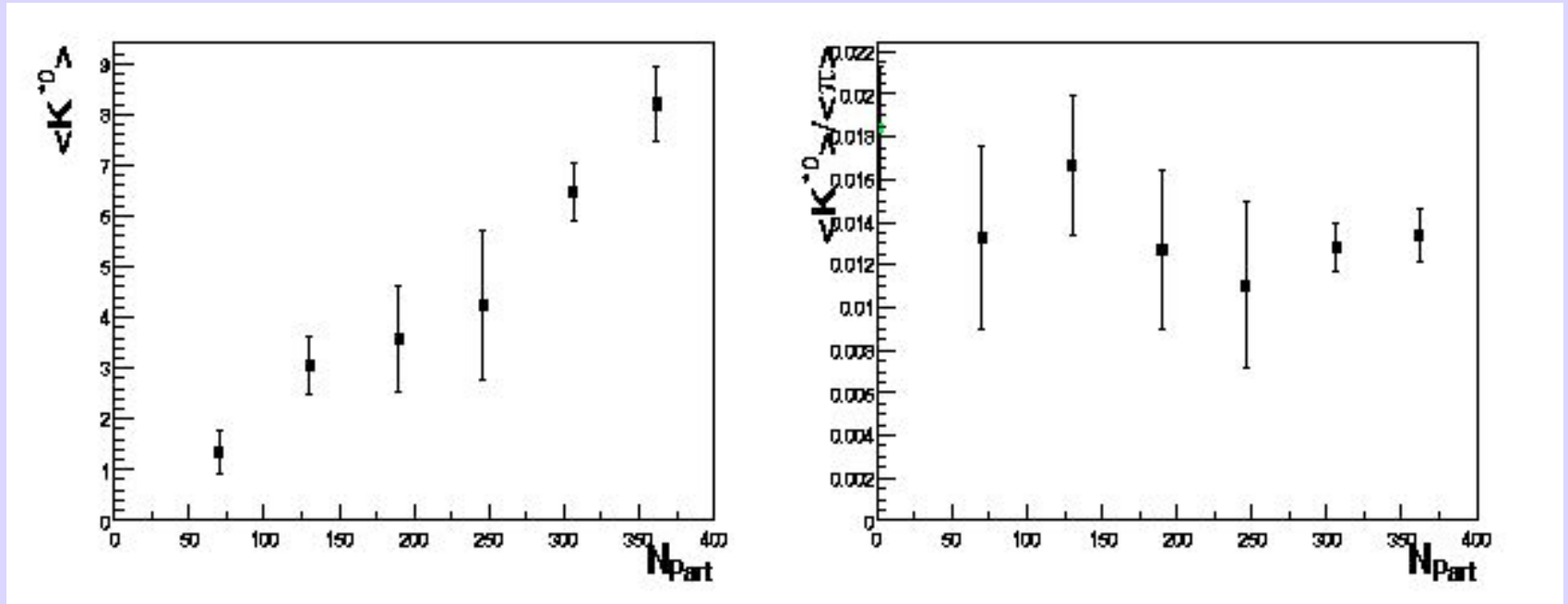
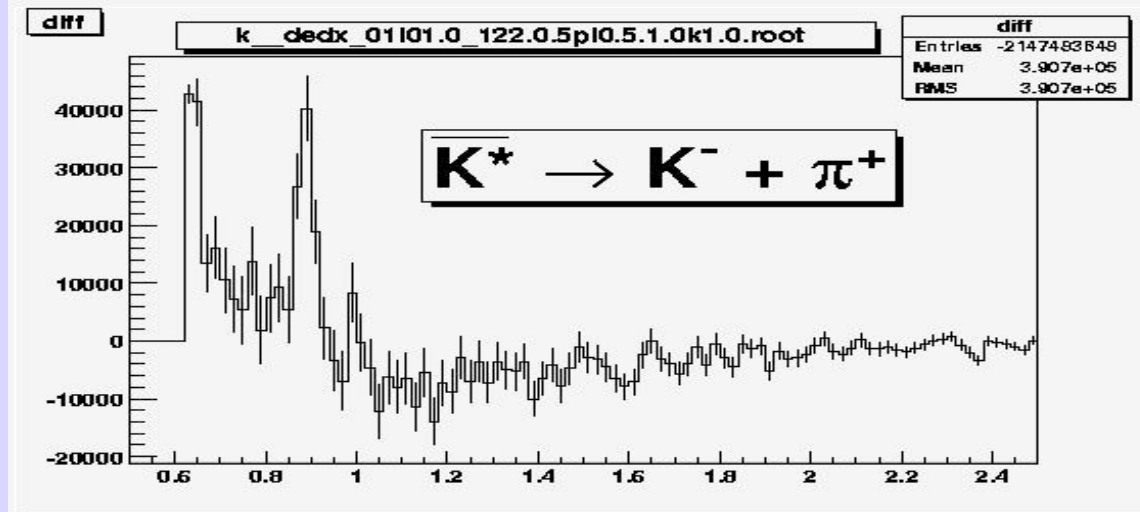
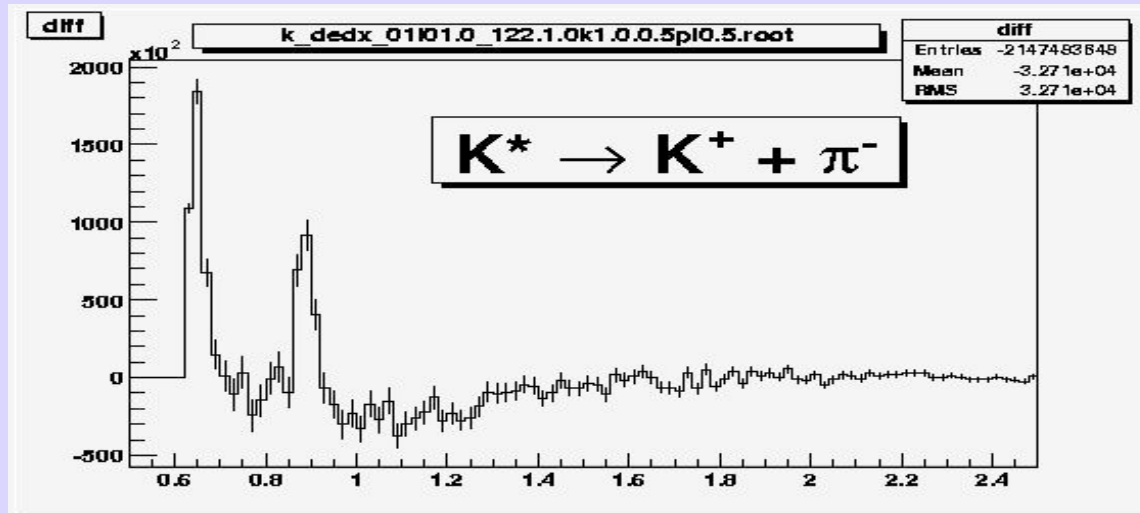


Fig. 3. Anti K^* yields per event and comparison to pion yields as a function of the number of participants.

In Kwon Yoo's results 3 M Pb+Pb at 158 AGeV



Work plan

past:

- february 2003: one week in IKF/GSI (In-Kwon Yoo software taken over)
- march 2003: understanding event and track cuts

future:

- april 2003: try to get a first signal at 40 AGeV
- continue with other energies
- work on corrections for spectra