The STAR experiment

at the Relativistic Heavy Ion Collider, Brookhaven National Laboratory

STAR members in Warsaw

Femoscopy:

Martin Girard
Adam Kisiel
Jan Pluta
Katarzyna Poniatowska
Sebastian Siejka
Hanna Zbroszczyk

Heavy Flavor:

Daniel Kikoła
Leszek Kosarzewski
Andrzej Lipiec
Janusz Oleniacz

Staff members
Student
Ph.D. student

Femtoscopy

Martin Girard
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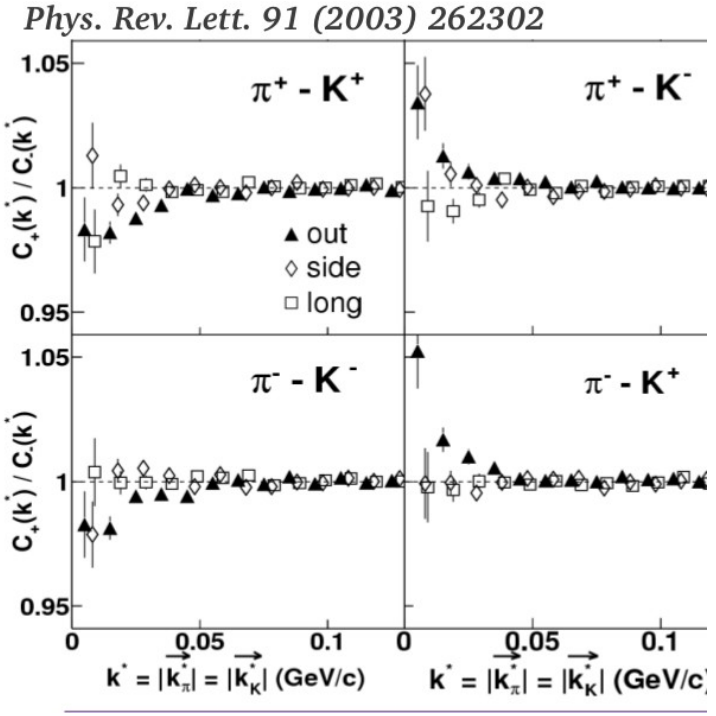
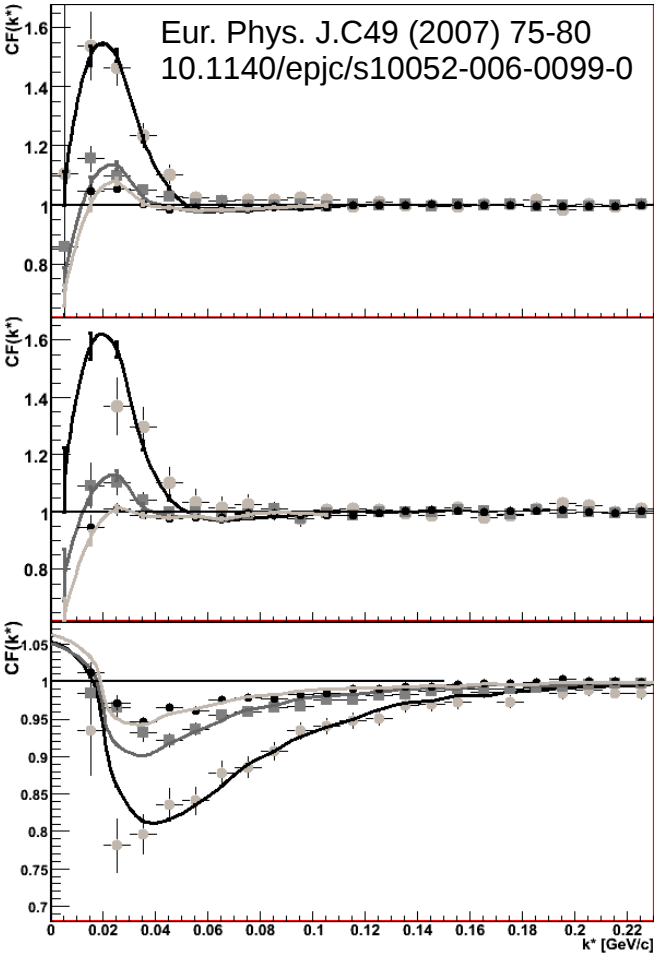
Hanna Zbroszczyk

Non-identical particle correlations



Baryon correlations



Identical particle correlations (kaons)

Femtoscopy

Physics:
- nonidentical particle correlations
- identical particle correlations

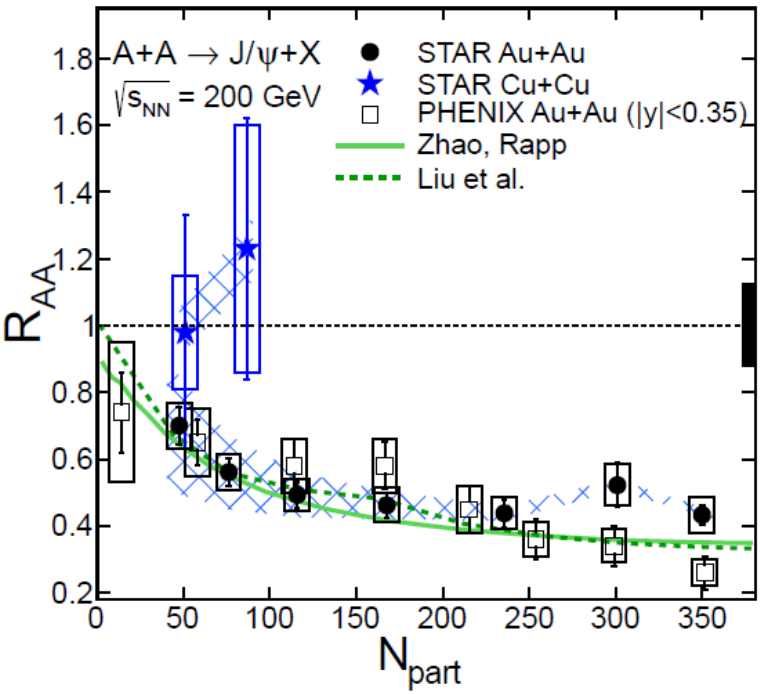
-baryon correlations
-meson correlations

-Beam Energy Scan program
-AuAu@200 GeV

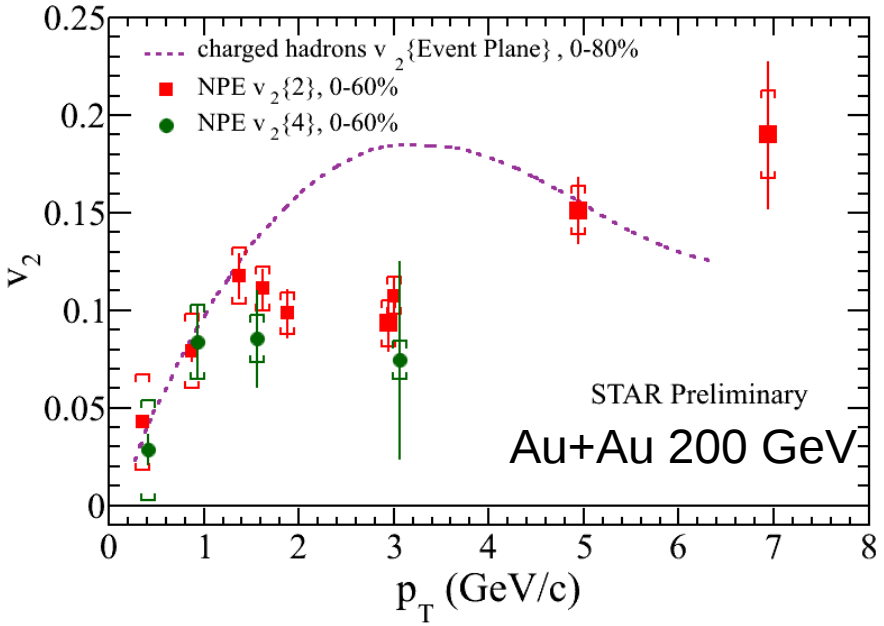
Heavy Flavor

Daniel Kikoła
Leszek Kosarzewski
Andrzej Lipiec

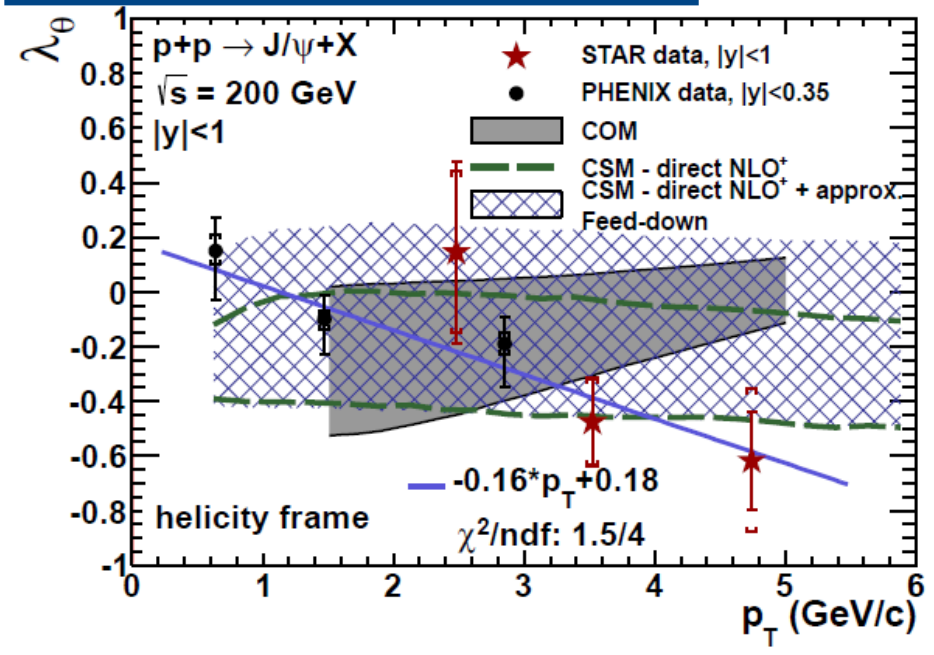
J/ψ production in A+A



Open heavy flavor elliptic flow



J/ψ polarization in p+p

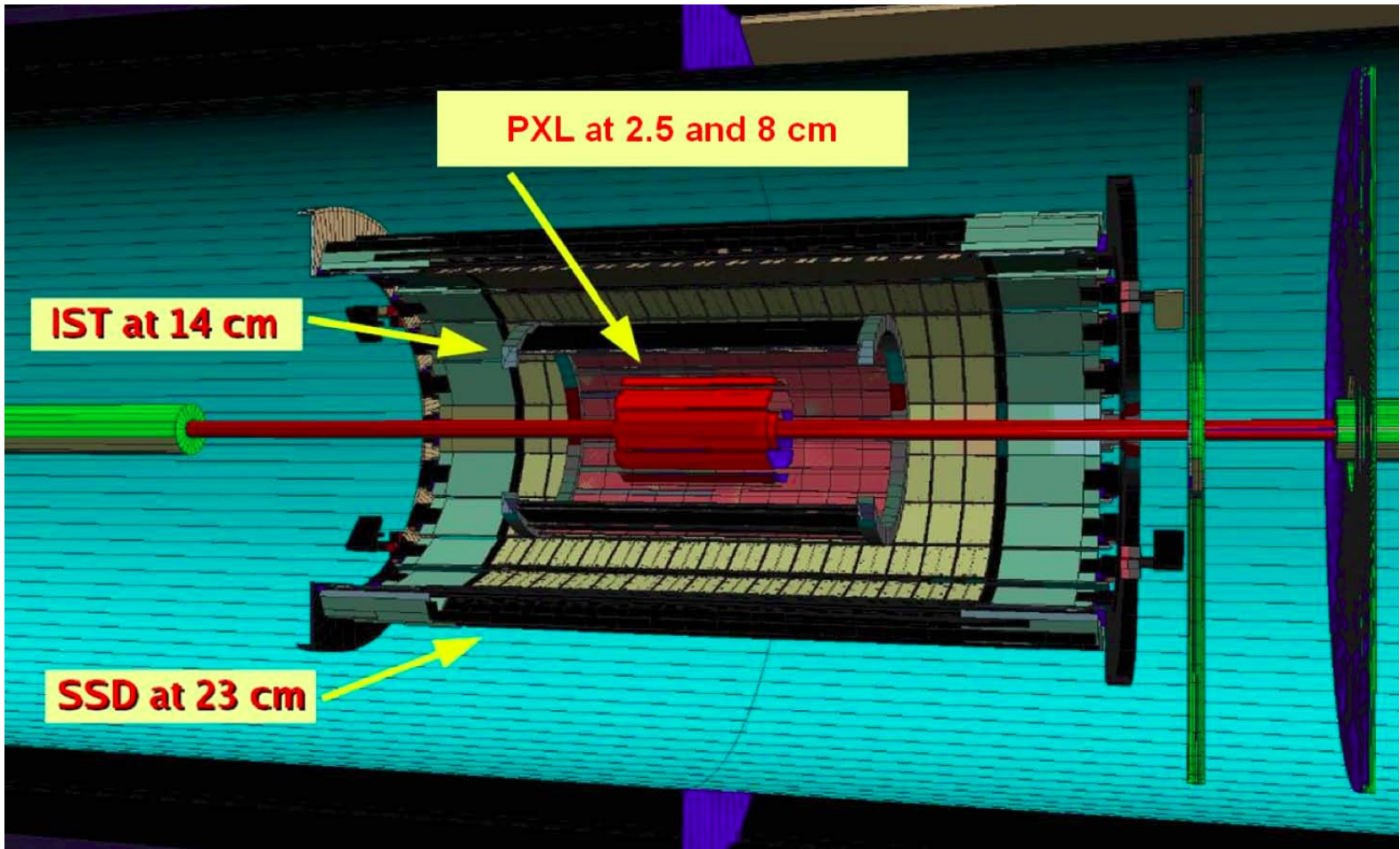


Heavy Flavor Tracker

Physics: **Bottom** production and elliptic flow

- **B → J/ψ, B → e**

Software: Data Quality Assurance, simulations



Computing cluster

1) 12 compute servers with modern Intel Xeon processors
   giving a total physical processors 48 +60 = 108,
   and logic ones 216
   RAM 4GB/core; drives 2TB
2) RAID5 disk matrixes: 35TB and 13TB of memory
3) Interactive nodes: 8x 4-core Intel Q6600; 16GB of RAM
4) 5 UPS (3000VA)

- Root4star already installed