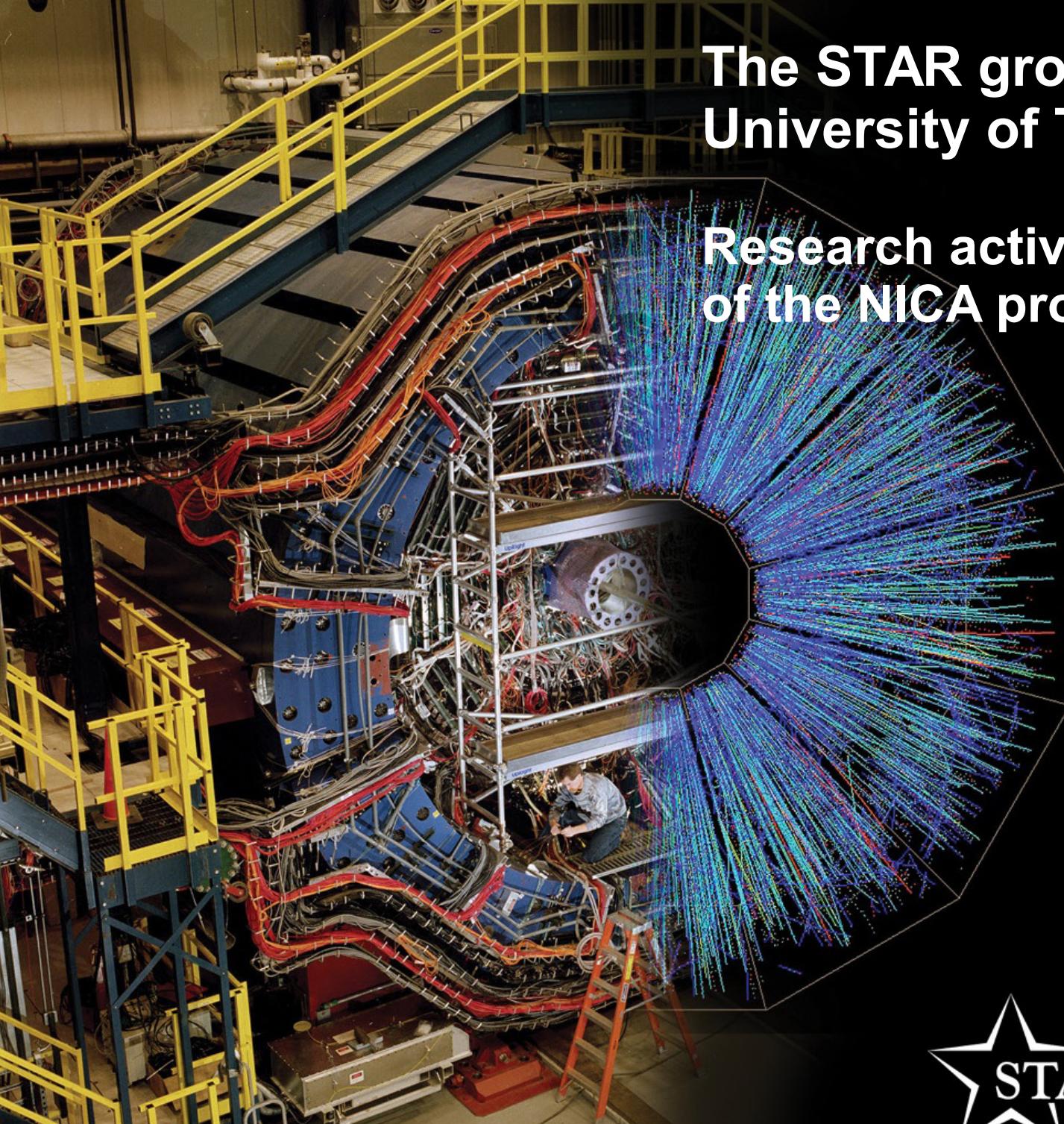


# The STAR group at the Warsaw University of Technology

Research activities in the context  
of the NIICA project



Daniel Kikoła



Wydział  
Fizyki

POLITECHNIKA WARSZAWSKA

# The STAR group at WUT



## femtoscropy

Hanna Zbroszczyk  
Jan Pluta  
Adam Kisiel  
**Diana Pawłowska**  
**Sebastian Siejka**  
**Maria Stefaniak**  
**Paweł Szymanski**  
**Daniel Wielanek**  
**Martin Girard**  
Gabriela Pokropska  
Tomasz Lehmann

## heavy quarks

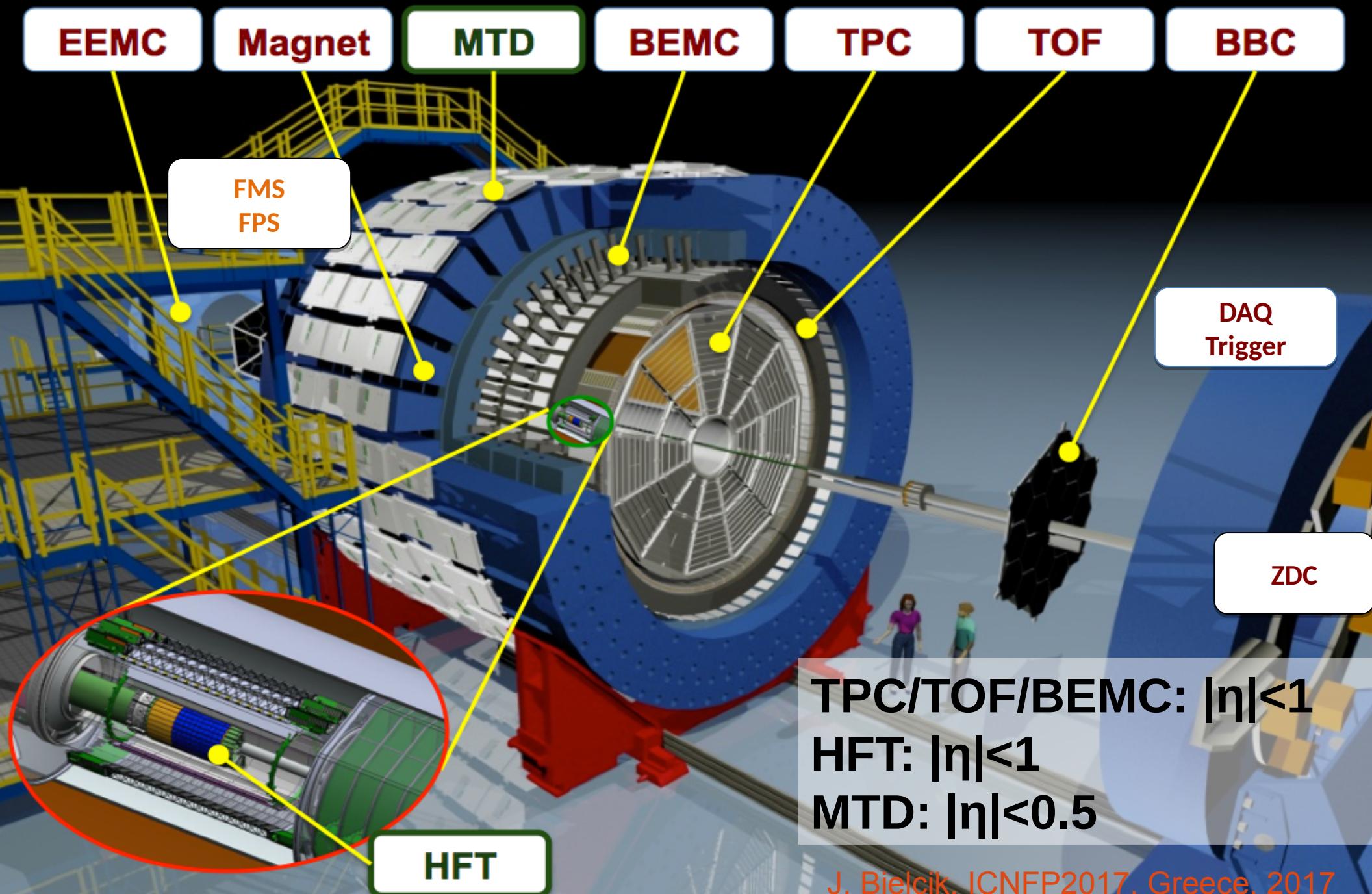
Daniel Kikoła  
Janusz Oleniacz  
**Leszek Kosarzewski**  
Karolina Kmiec

## angular correlations

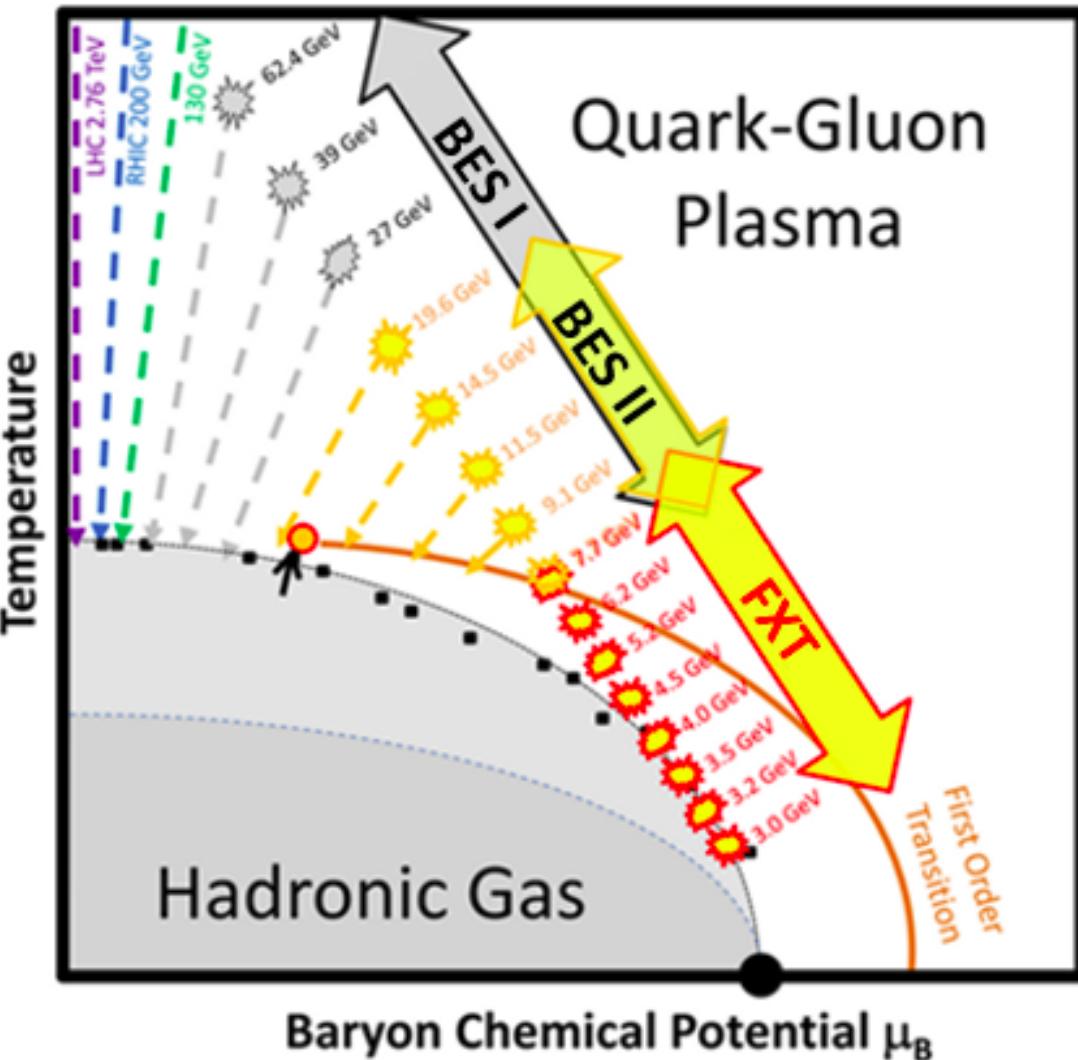
**Andrzej Lipiec**  
Łukasz Kozyra  
Piotr Kopaczewski

Faculty members  
**PhD students**  
MSc/Eng students

# The STAR experiment



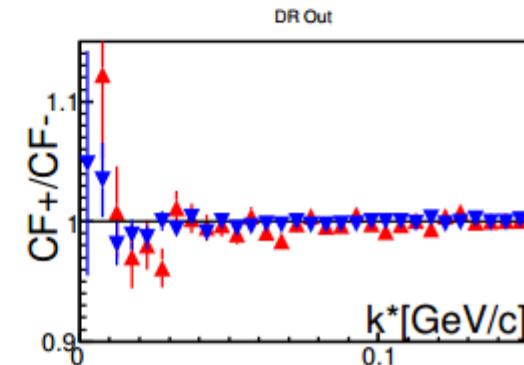
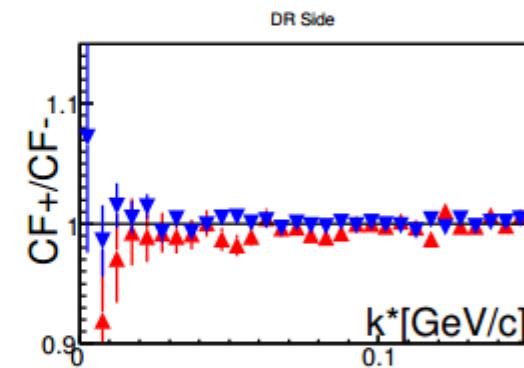
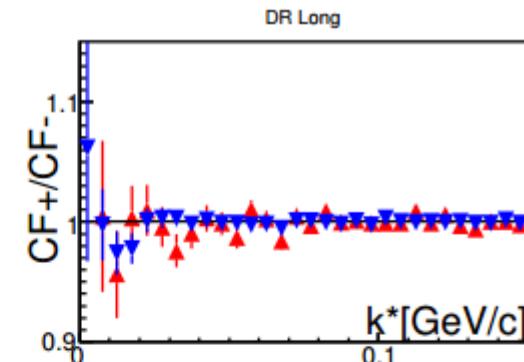
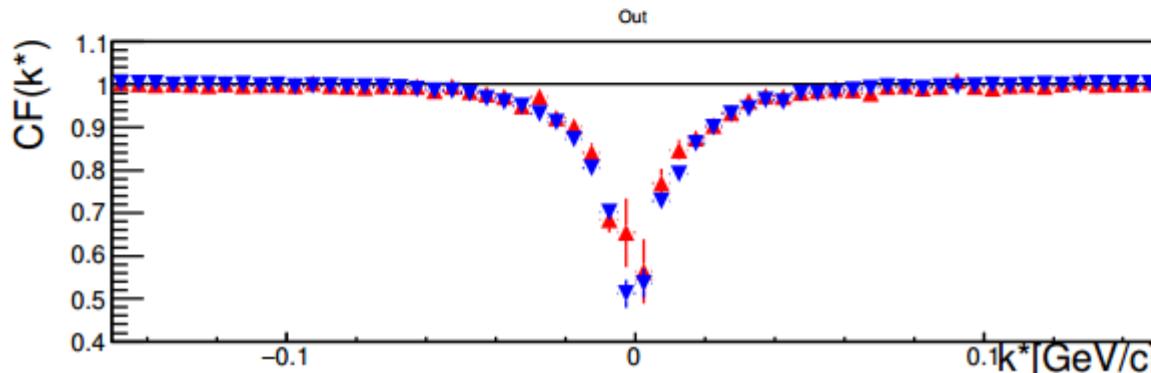
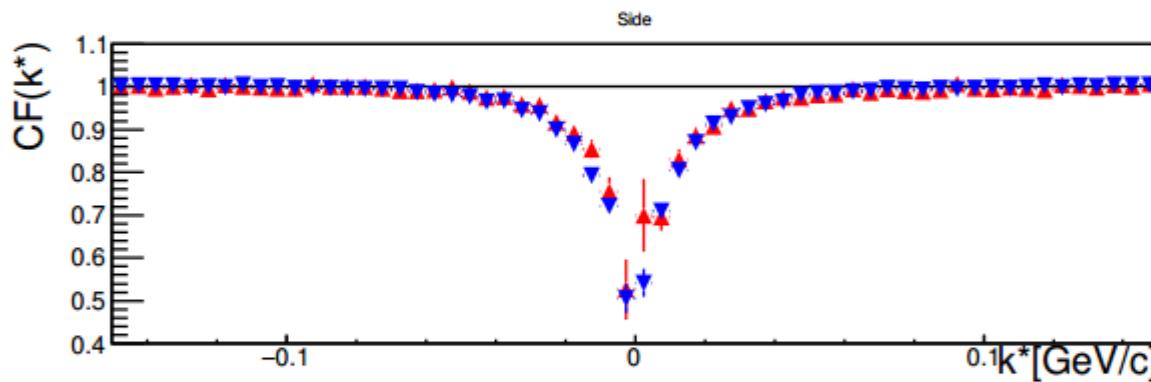
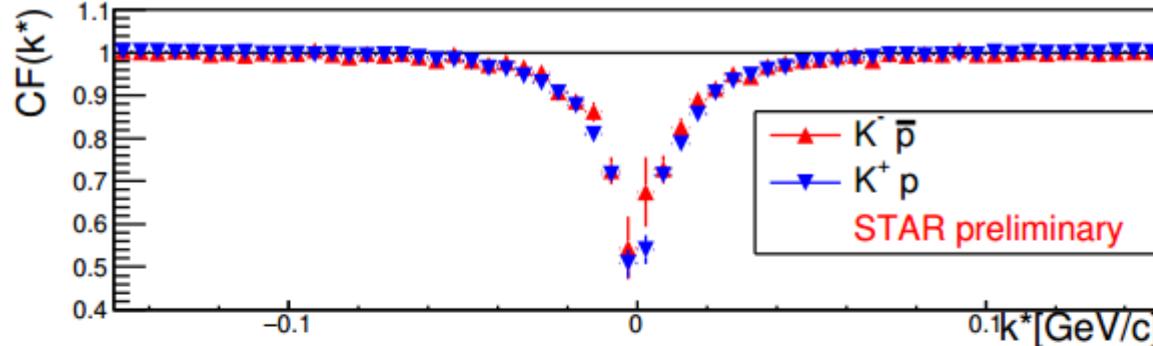
# Physics program



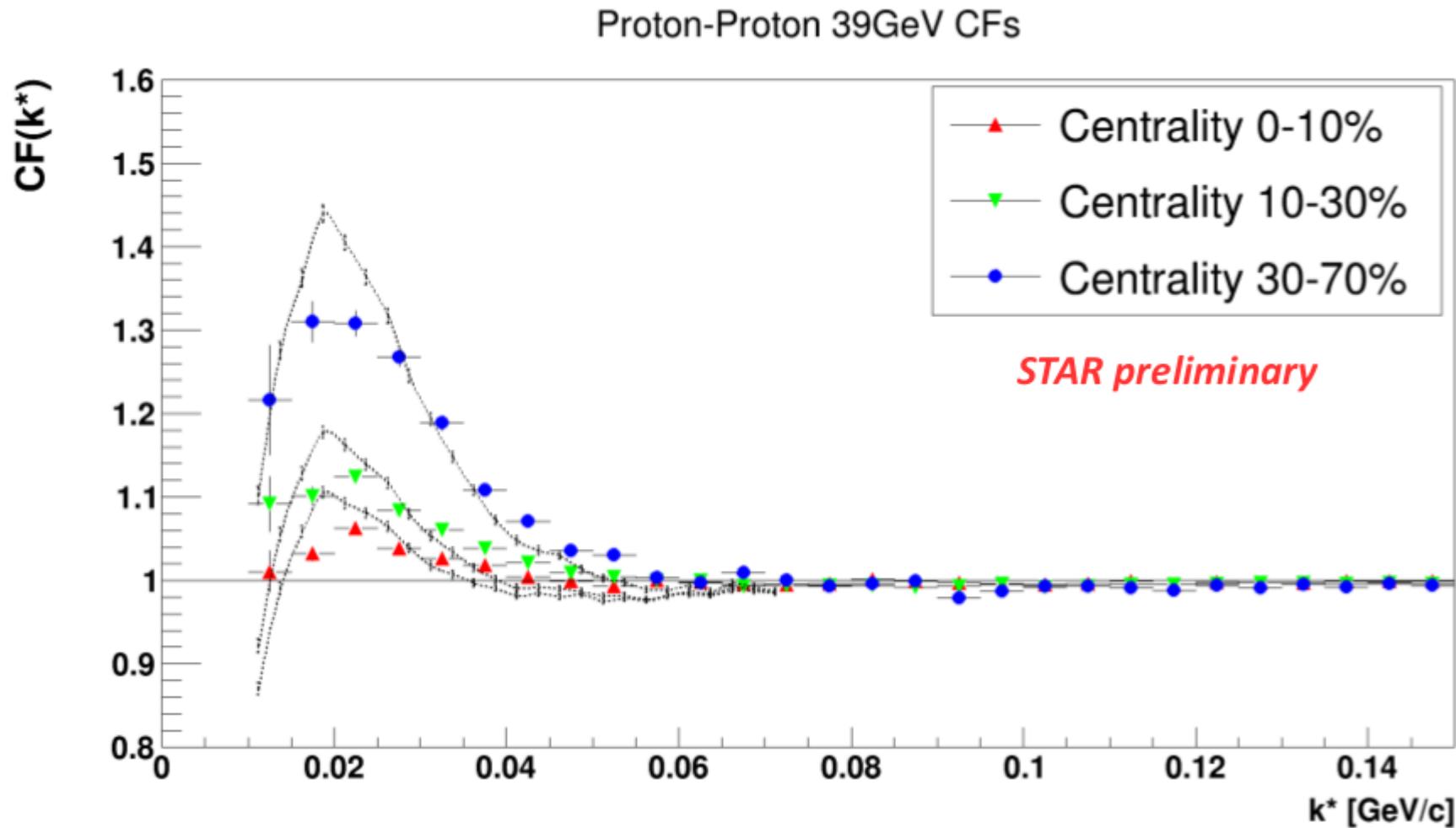
- Beam Energy Scan I
- Beam Energy Scan II
- STAR Fixed Target program

# Non-identical particle femtoscopy

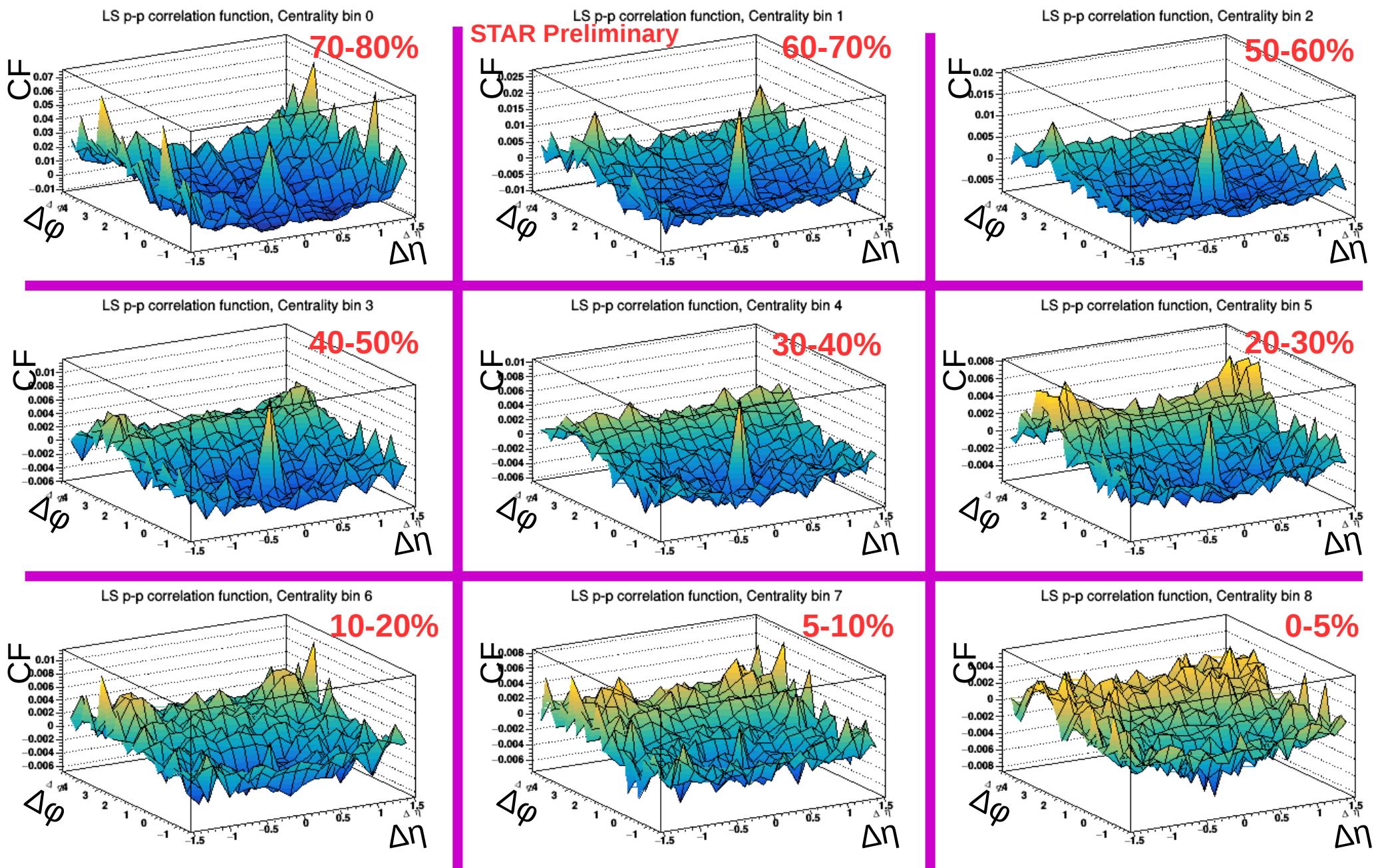
Au+Au collisions at  $\sqrt{s_{NN}} = 39$  GeV



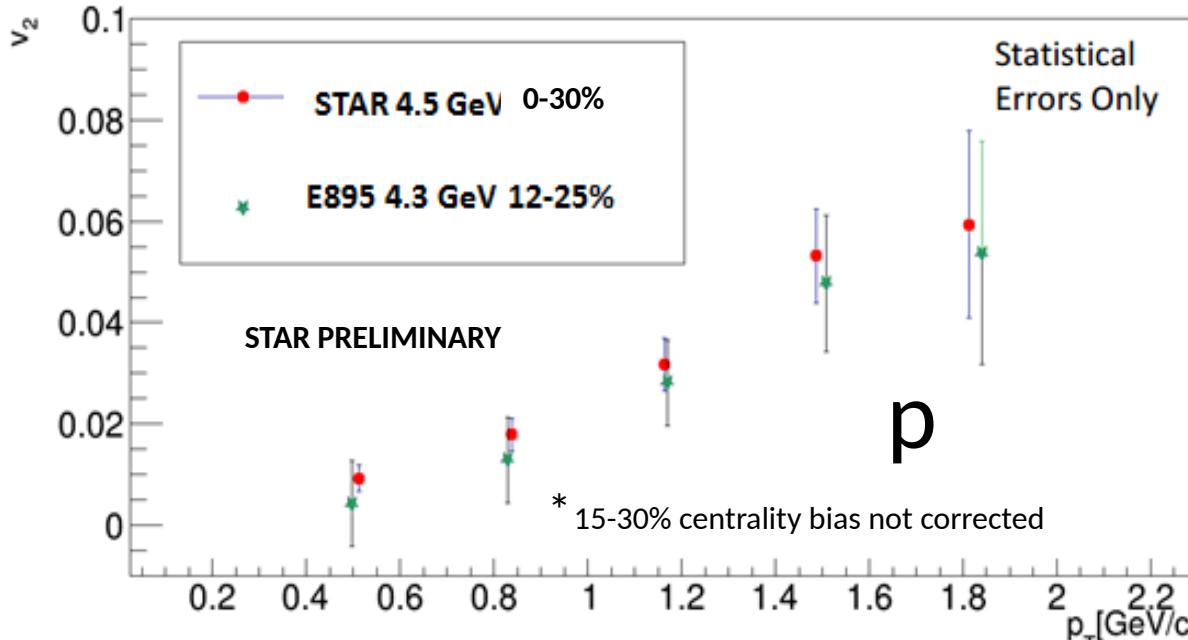
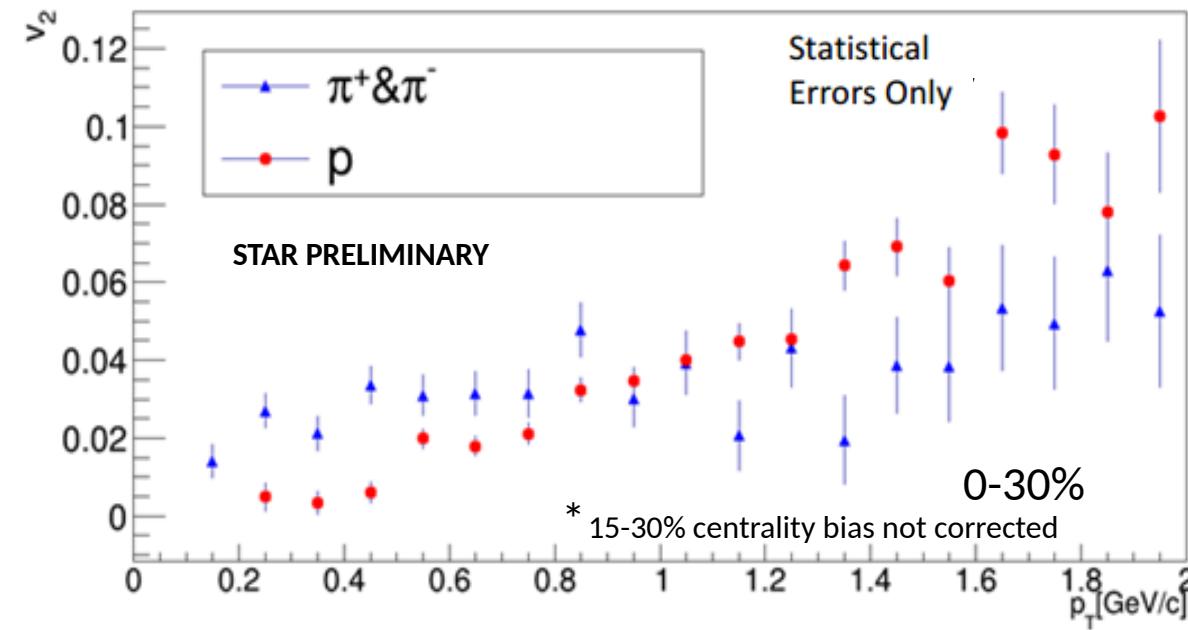
# Proton femtoscopy



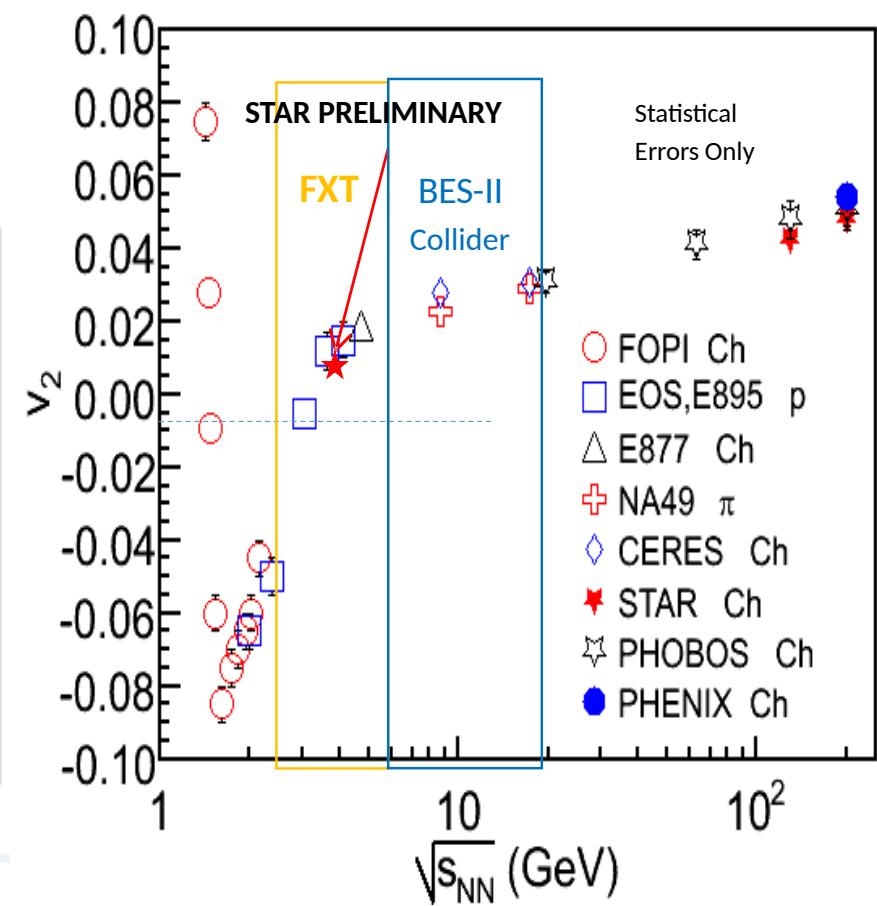
# Like-sign proton-proton correlations, AuAu @ 19.6 GeV



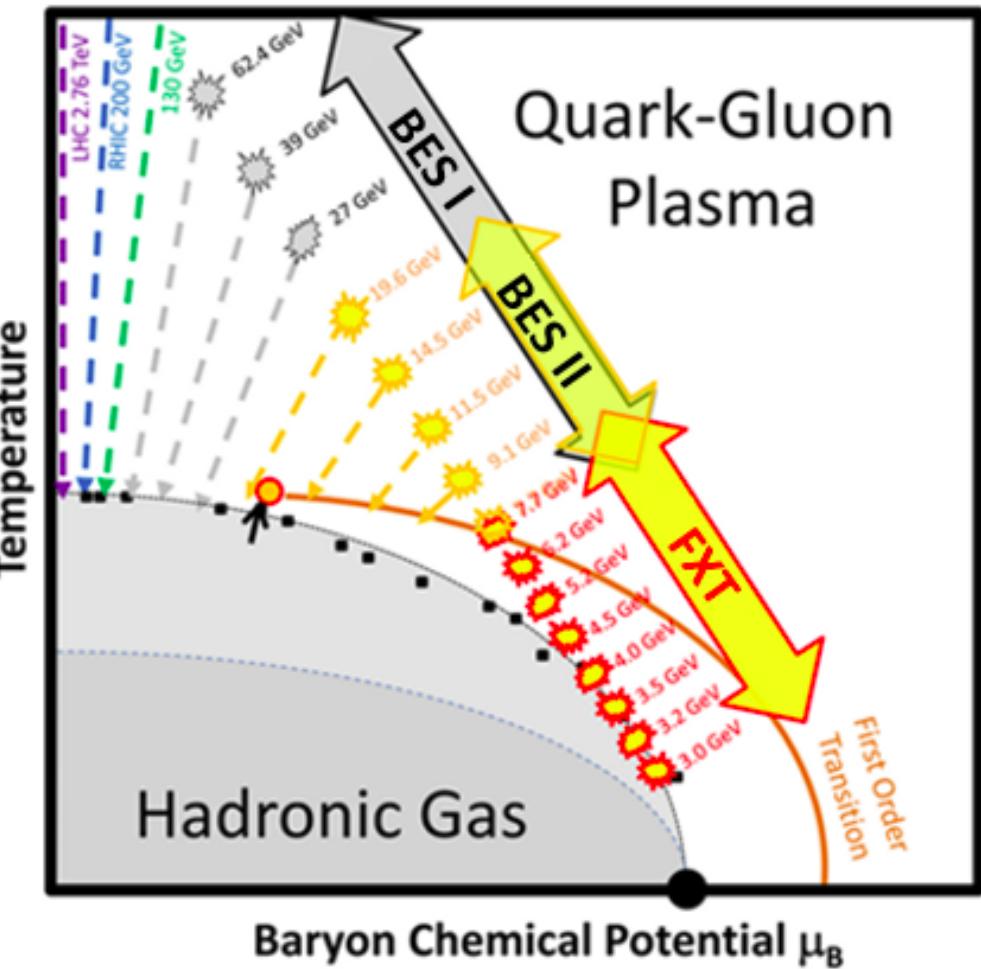
# Elliptic flow in the STAR Fixed Target



STAR data analysis by  
Łukasz Kozyra (Warsaw  
University of Technology)



- Physics program:
  - Beam Energy Scan I
  - Beam Energy Scan II
  - STAR Fixed Target program
- Expertise
  - femtoscopy
  - angular correlations
  - elliptic flow
  - heavy flavor production



STAR Collaboration, Nucl.Phys. A967 (2017) 808-811

# Backup

