

Status of TPC project at Siegen University

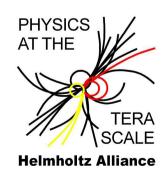
Amir Noori Shirazi

Siegen University

TPC meeting 26.01.2017







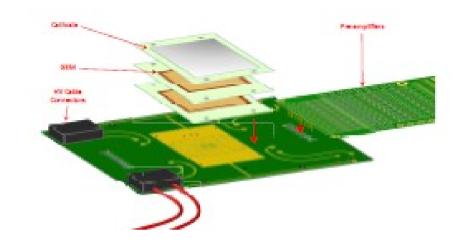


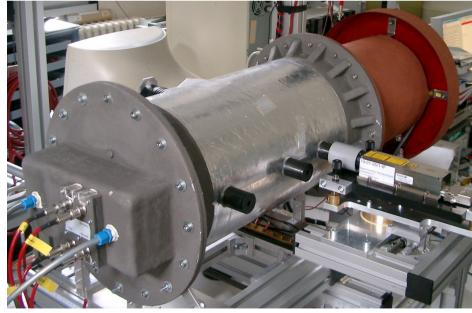
Members:

- Prof.Ivor.Fleck (head of the group)
- Dr.Ulrich Werthenbach.(Postdoc for technical support)
- Amir Noori Shirazi(PhD student)
- Serhat Atay (PhD student)
- Daisuke Kihara (Master student)

There are two TPC availabe:

- Small chamber for GEM testing(Pad + GEM)
- Big chamber for real test (TimePix chip + GEM)





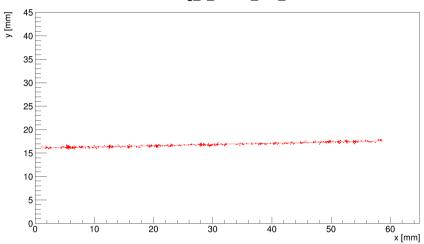


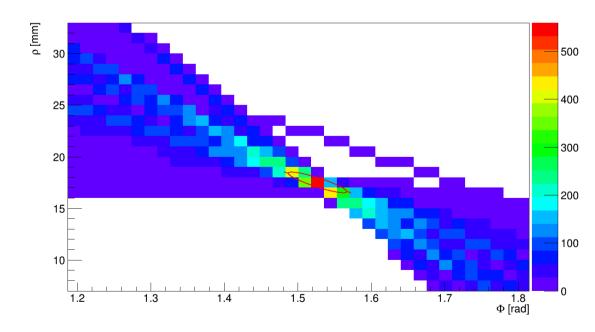


Drawing_1_Tracks_437_Hits

Amir Noori Shirazi:

- Simulation for InGrid
- Track Reconstruction
 - Using Bivariate normal distribution for finding inliers hits in Hough space
- Analysis
 - Efficiency and purity based on the reconstructed, ghost and clone tracks





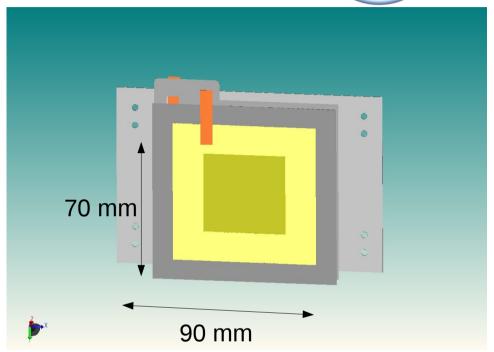


Amir Noori Shirazi



Serhat Atay and Daisuke Kihara

- Ceramic GEM
- Carbon cotting GEM
- Comparing with Normal GEM



Components	Material
Ceramics Body	Glass-Alumina composite
Conductor	Ag
Plating(Top)	Au
Plating(Underlay)	Ni



Amir Noori Shirazi