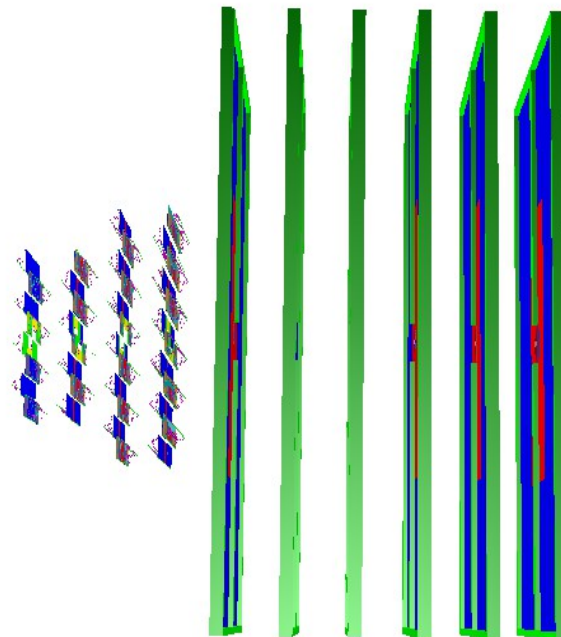
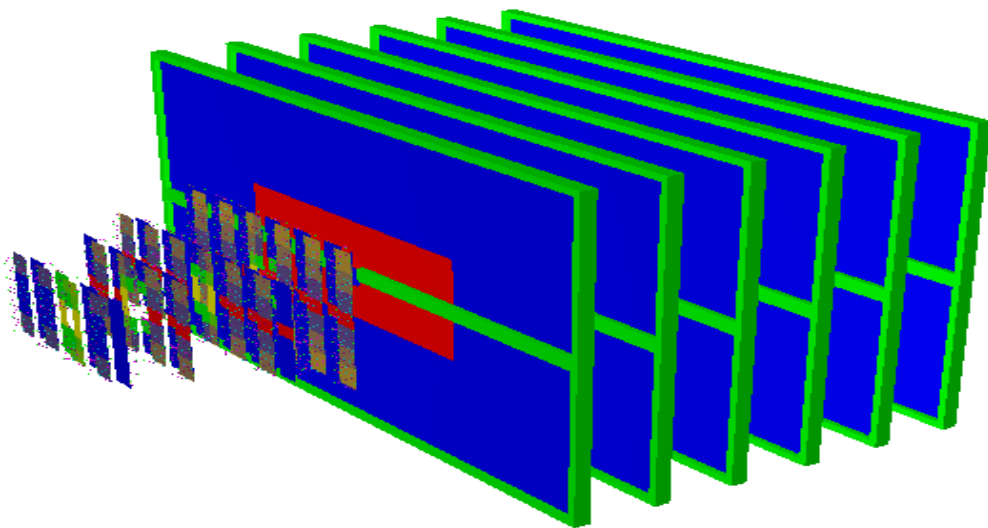


# First preliminary results on track reconstruction in the hybrid setup

**A.Zinchenko**

*VBLHEP, JINR, Dubna, Russia*

# Geometry



Stations (target at 0):

Si	30 cm	45 cm	60 cm	75 cm	(version "b" from E.Lavrik)	
GEMs	95 cm	115 cm	135 cm	155 cm	175 cm	195 cm

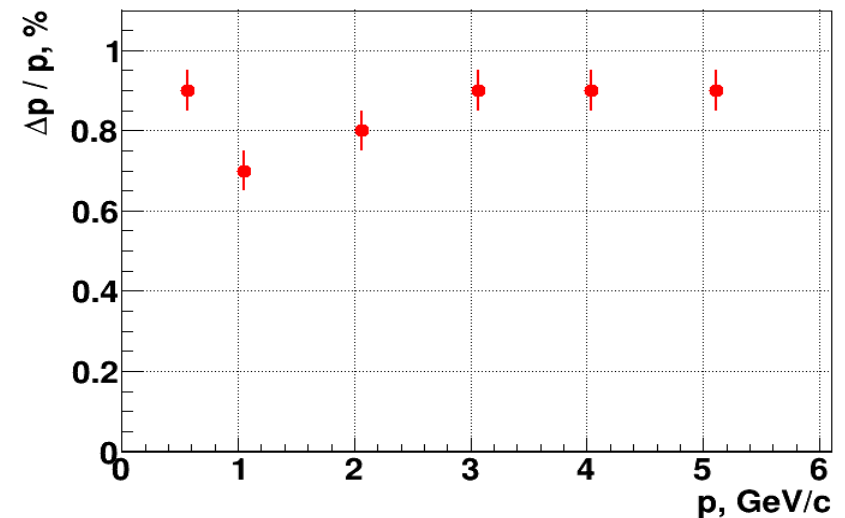
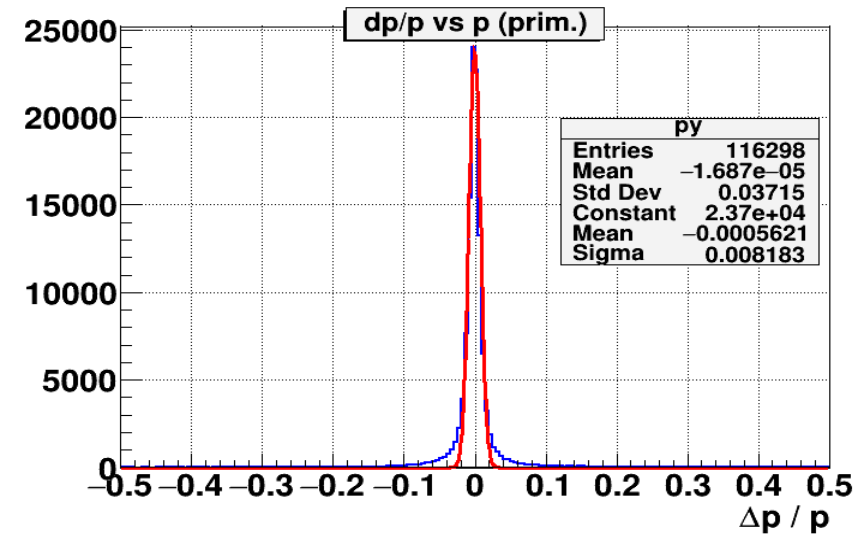
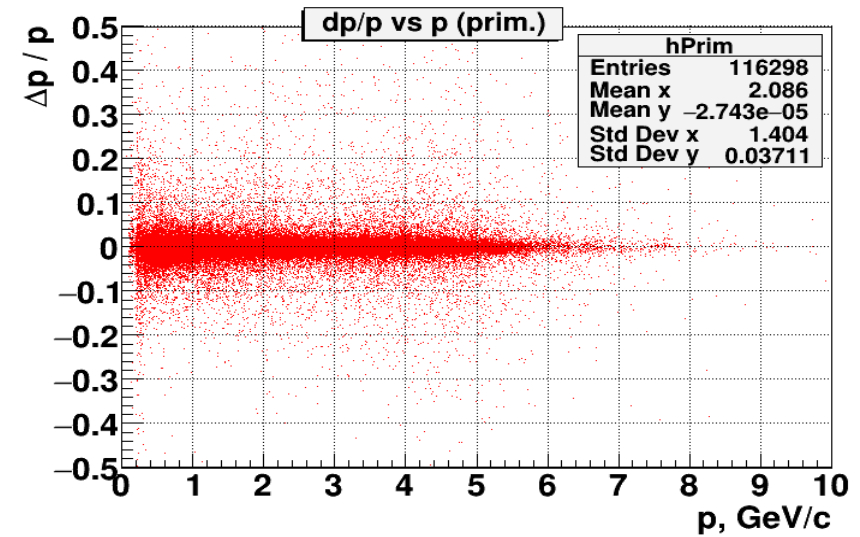
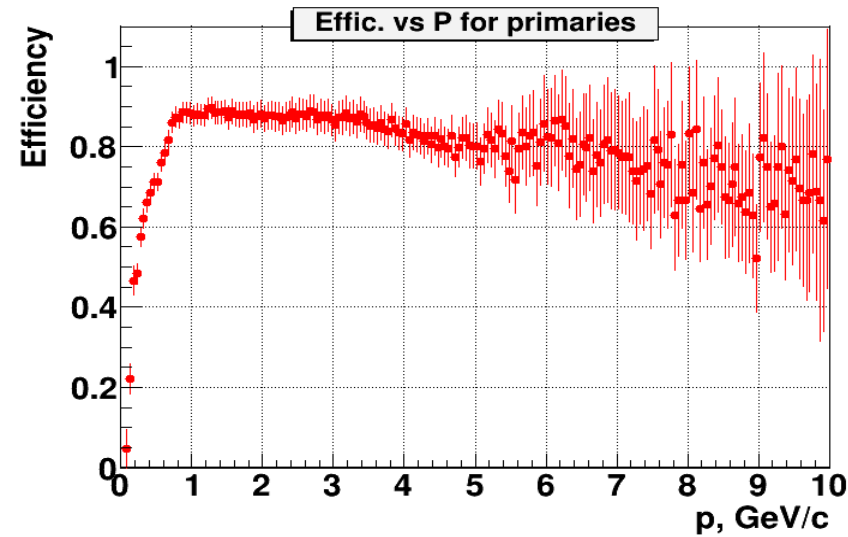
Field:  $\sim 0.8$  T

# Event sample

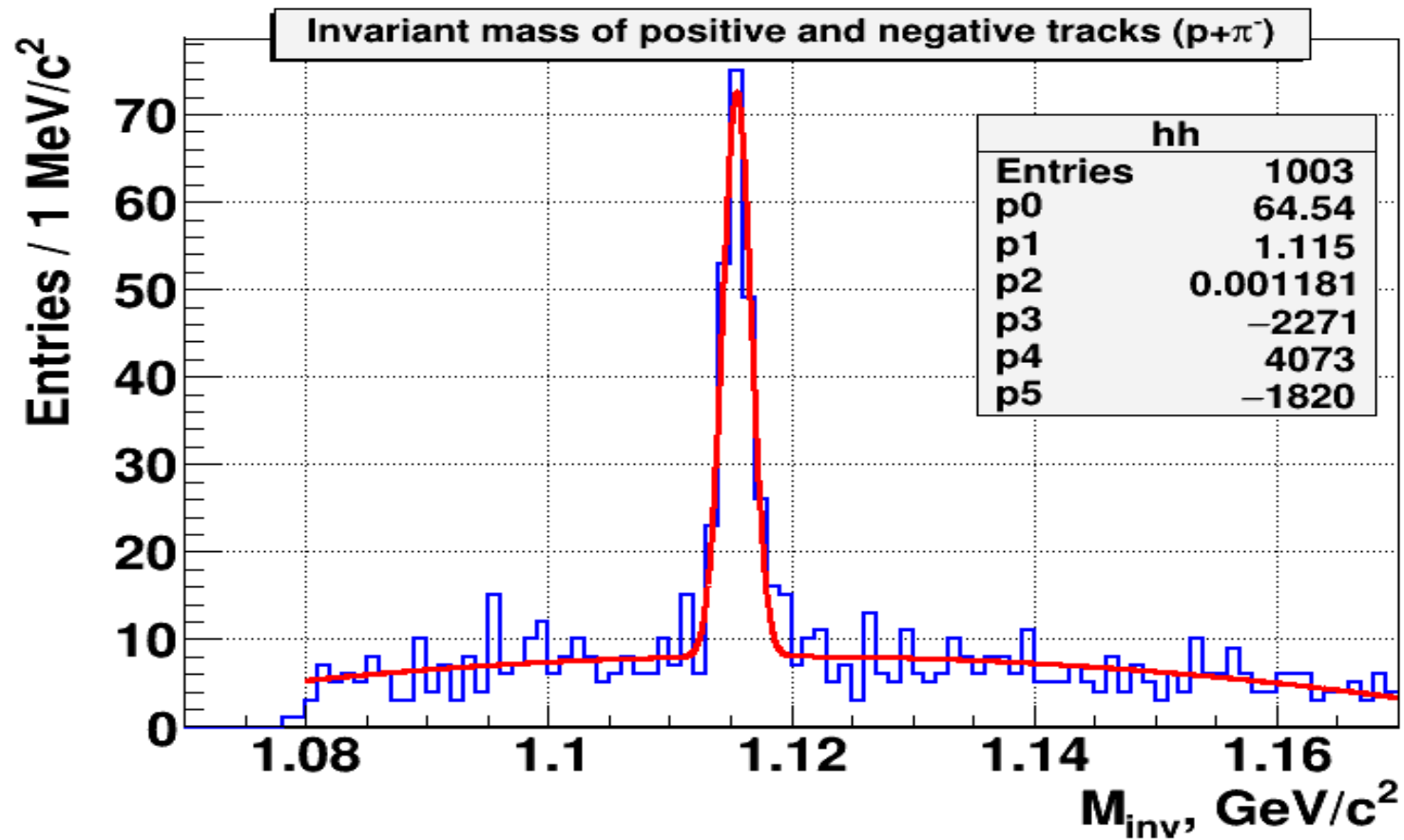
## **Event sample:**

1k DCM-QGSM Au+Au central events at  $T = 4$  GeV

# Reconstruction results



# Lambda

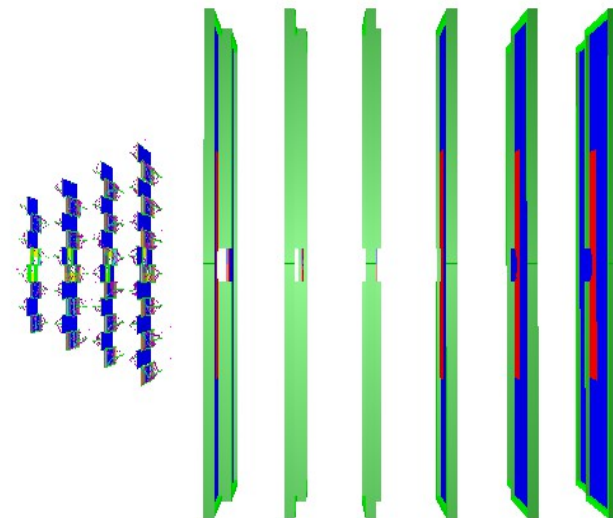
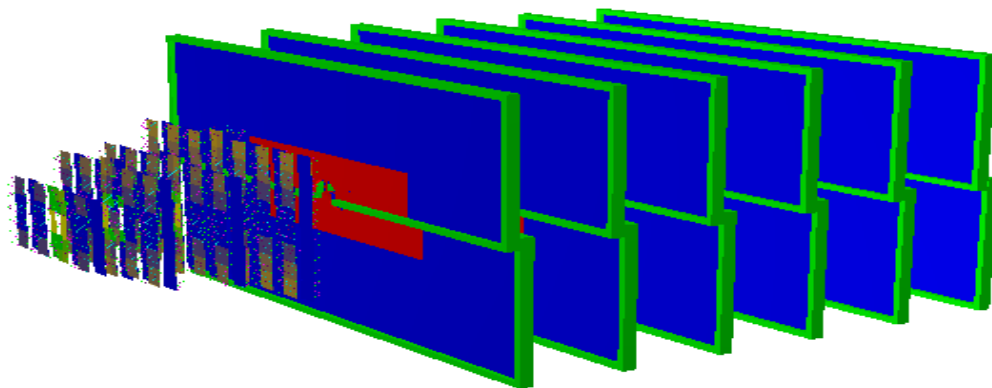


Selection cuts are not optimized

# Next steps

- GEM geometry description is not completely actual – inter-station distances should be adjusted; there is no overlap of upper and lower half-stations (dead zone is present);
- Lorentz-shift in GEMs is underestimated – simulated for magnetic field  $\sim 0.6$  T;
- CA track finder might not be the most optimal for the whole setup – the modified approach (CA for Si stations and track propagation through GEMs should be tried);

# Geometry

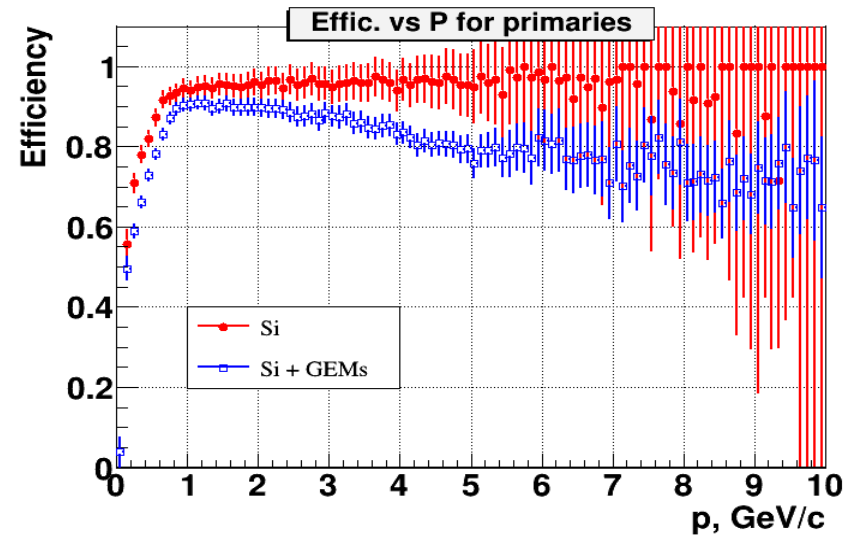
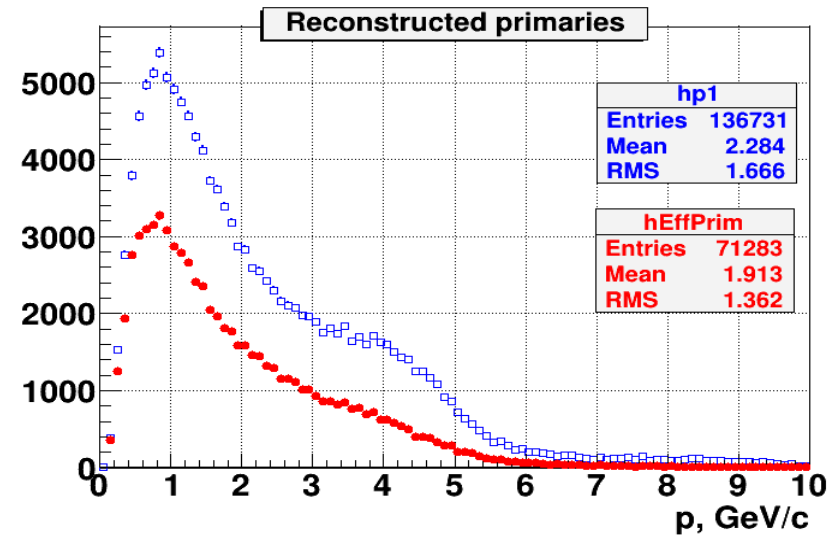
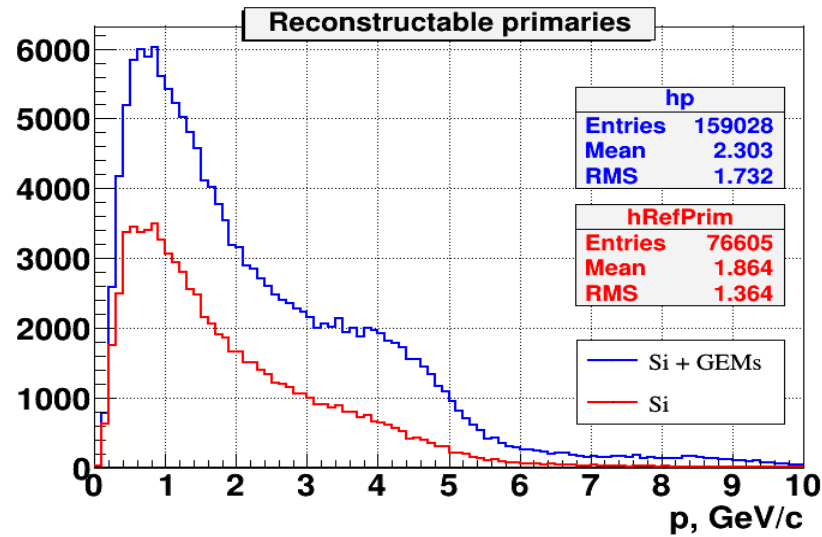


Stations (target at 0):

Si	30 cm	45 cm	60 cm	75 cm	(version "e" from E.Lavrik)	
GEMs	105 cm	135 cm	165 cm	195 cm	225 cm	255 cm

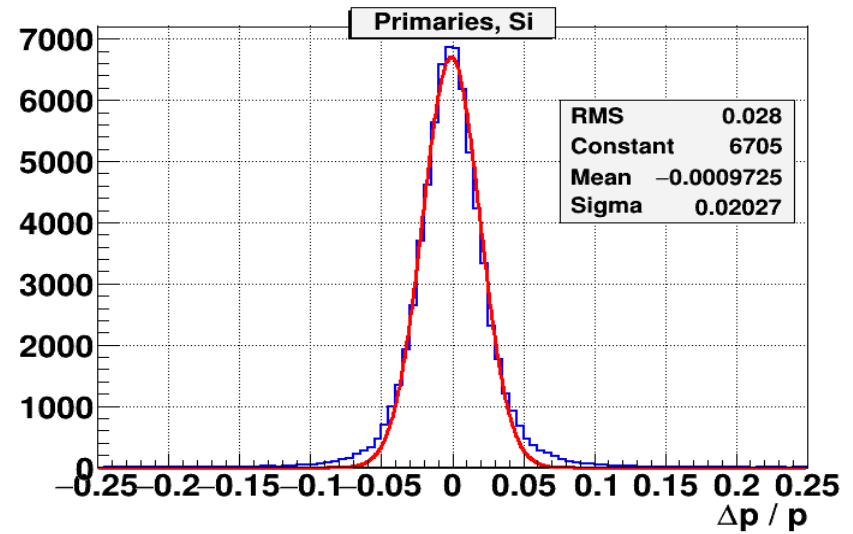
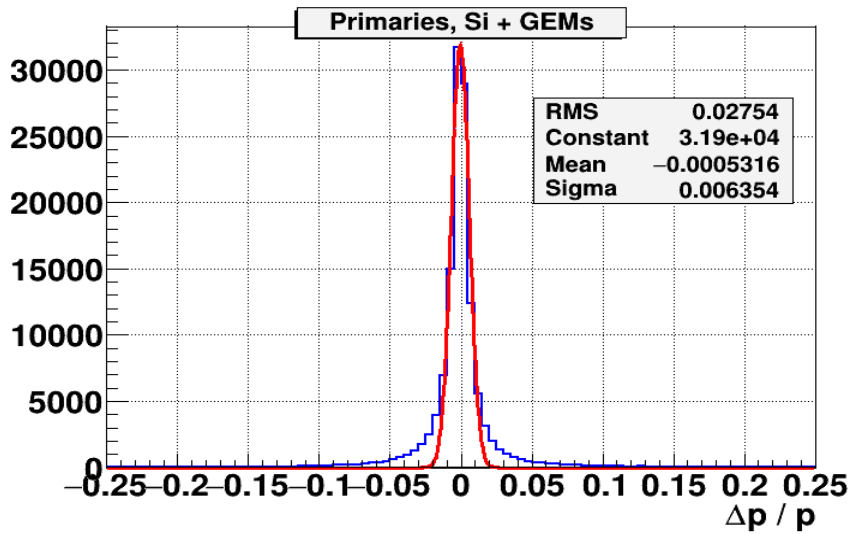
Field:  $\sim 0.8$  T

# Reconstruction results

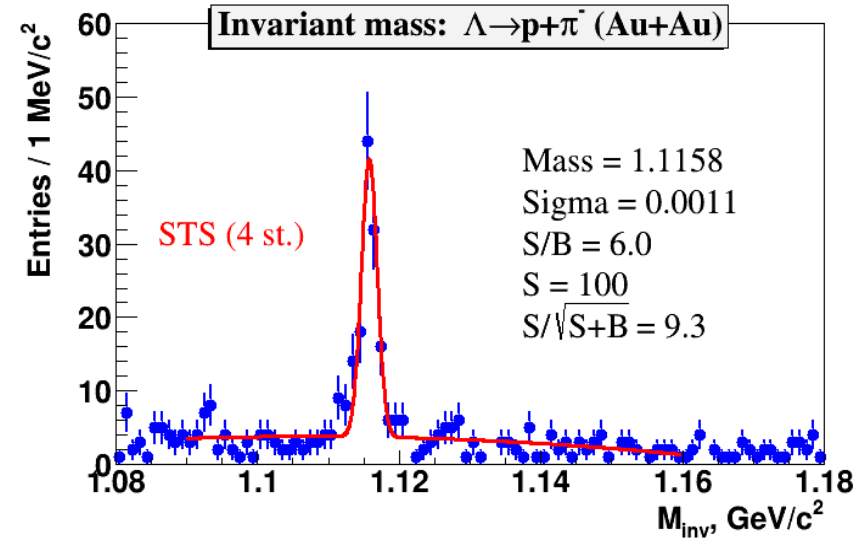
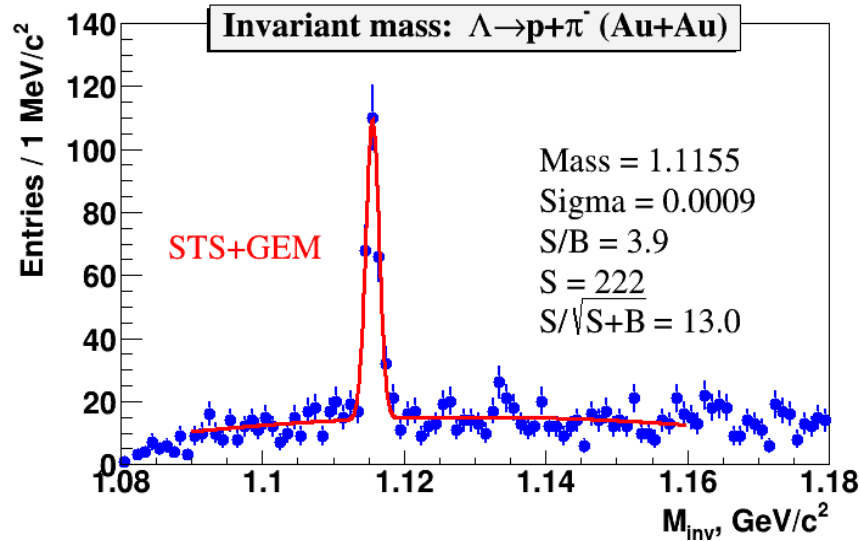
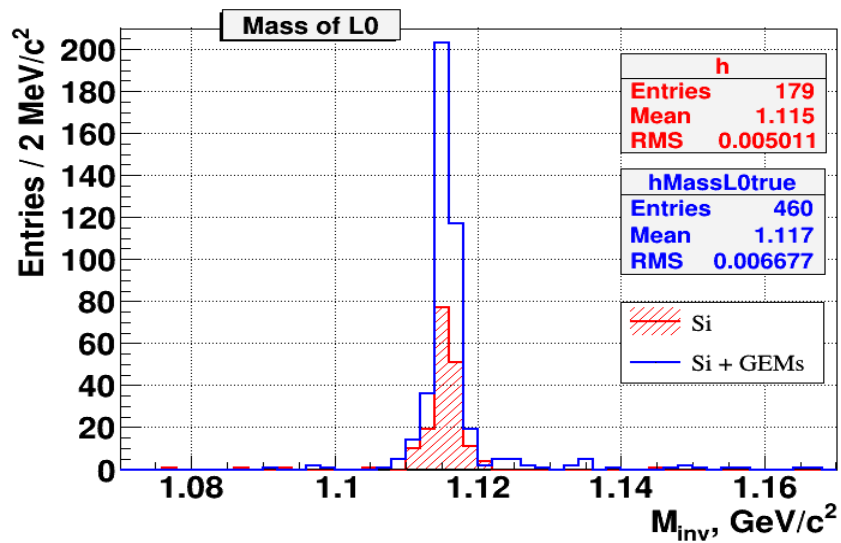




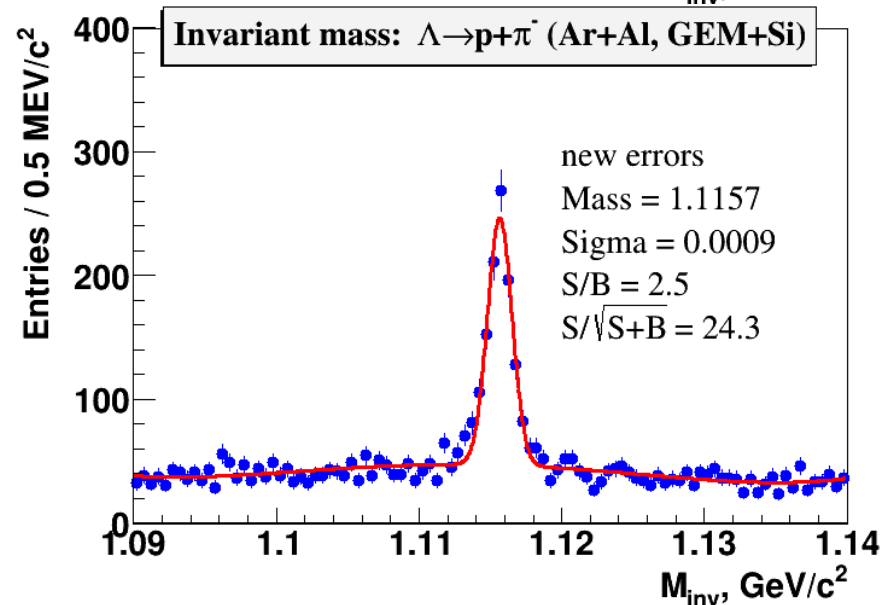
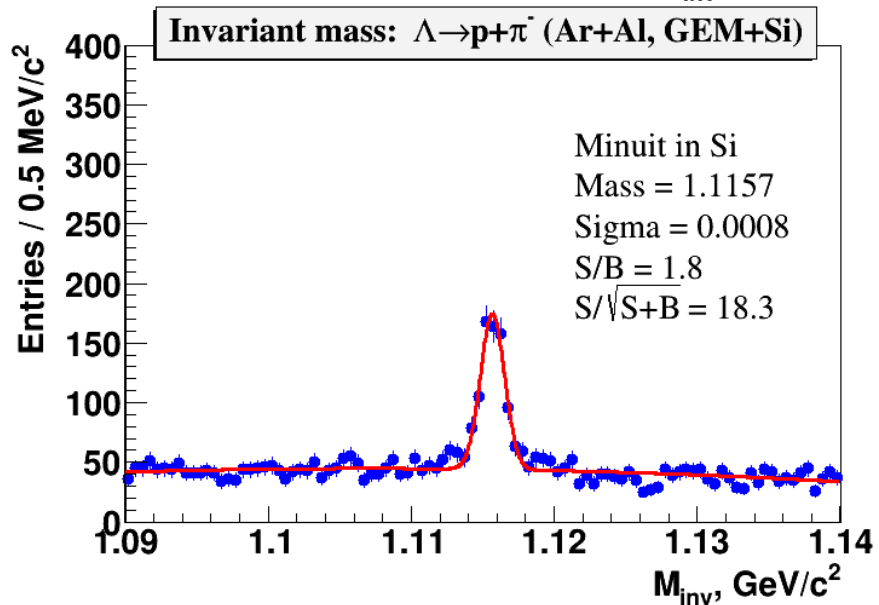
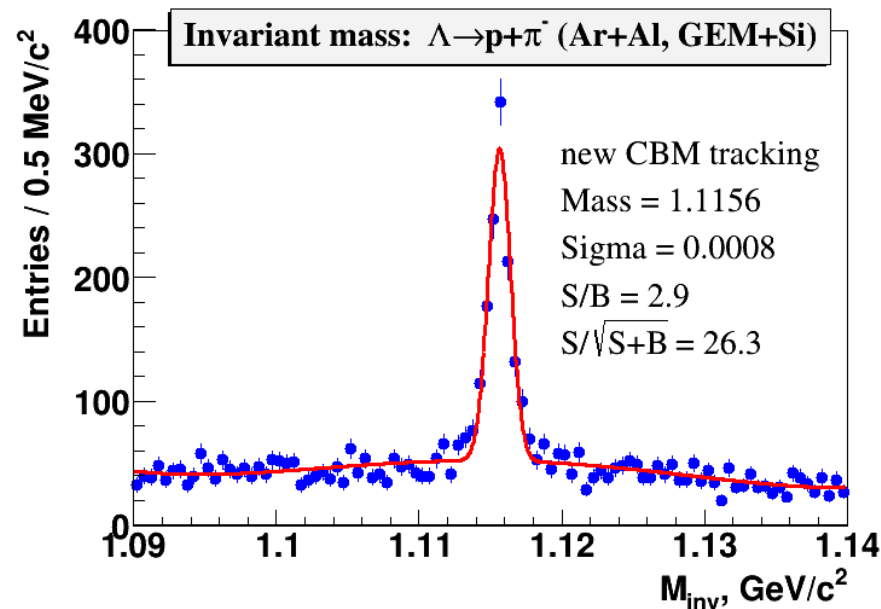
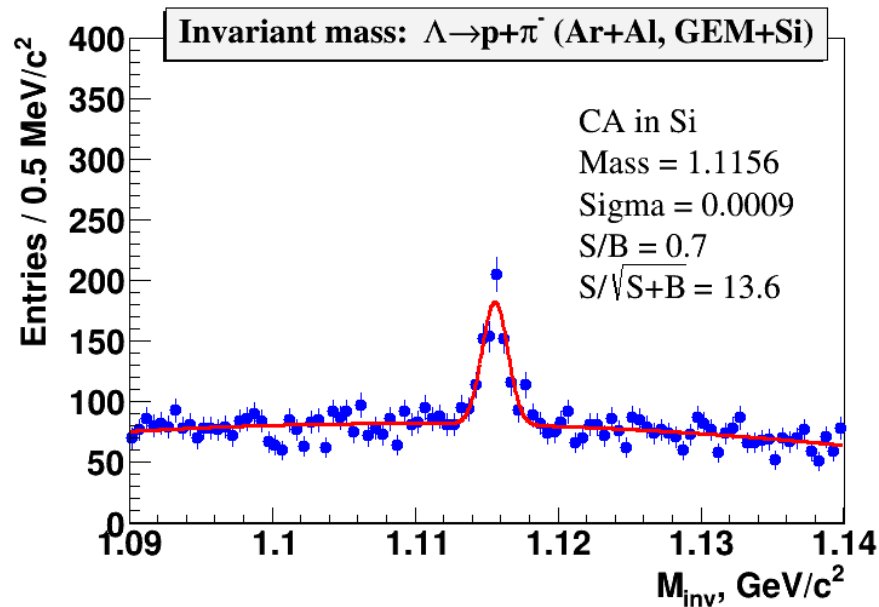
# Momentum resolution



# Lambda reconstruction results



# Run 7 MC Ar+Al 200k GEM+Si



# Run 7 MC Ar+Al 200k GEM

