

Azimuthal distribution of positive pions

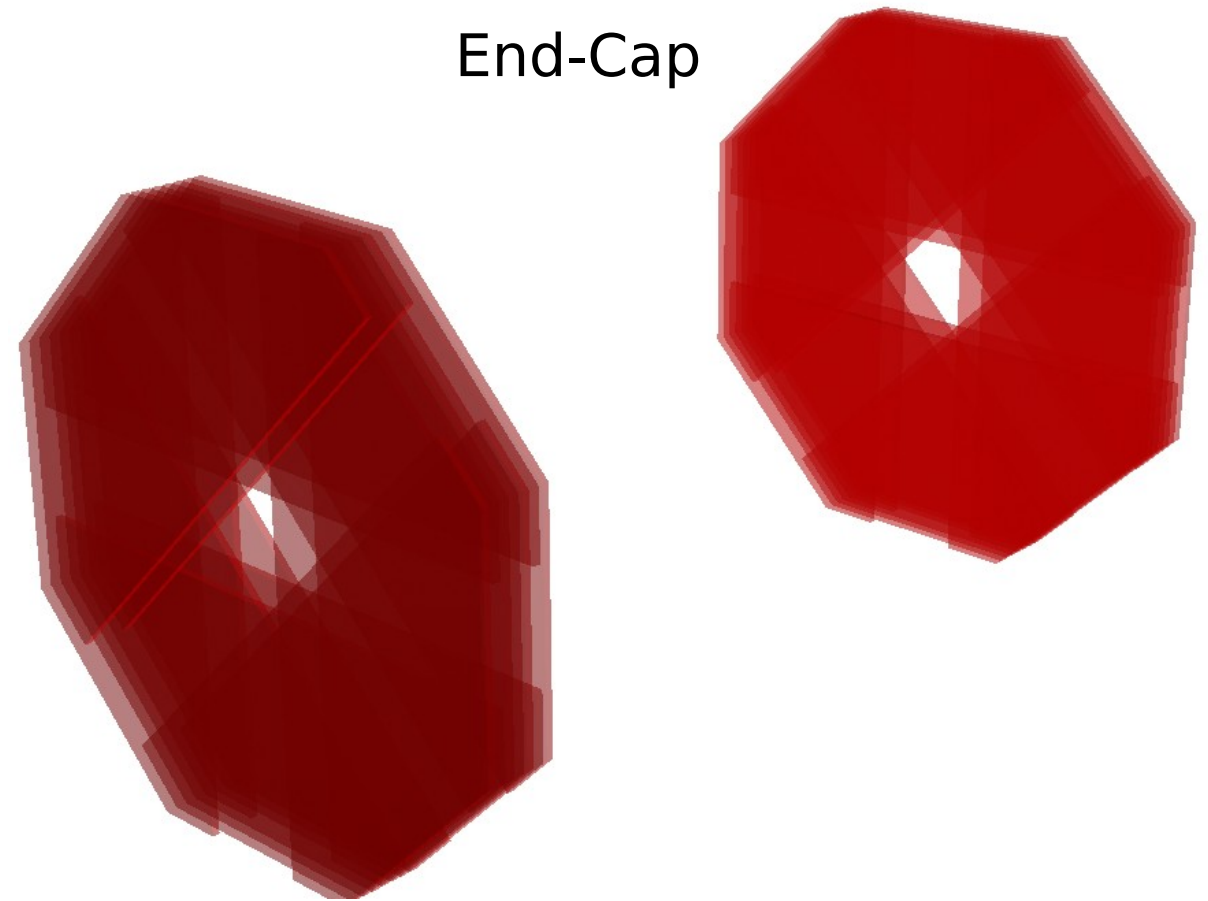
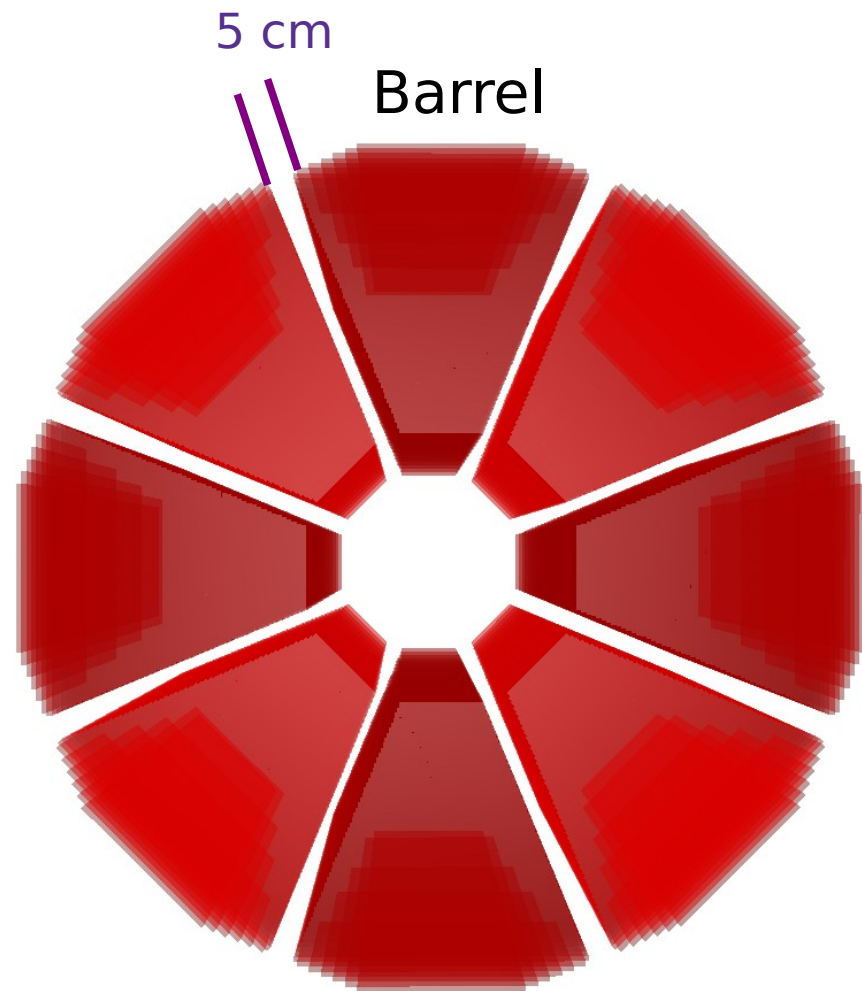
Artem Ivanov
JINR, Dubna

Physics & MC meeting
06.07.2022

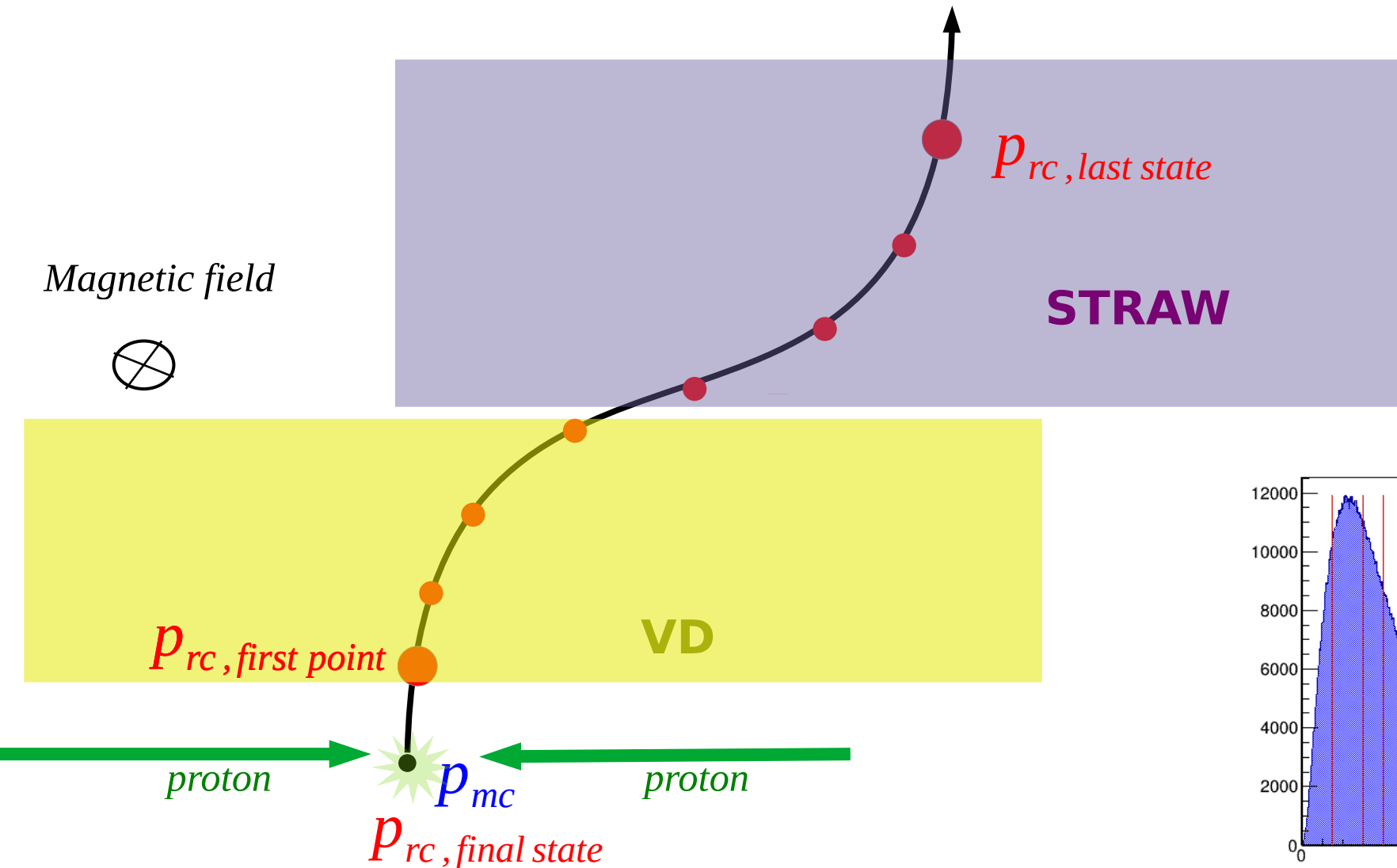
STRAW in SPD

In SpdRoot the tube is fully sensitive

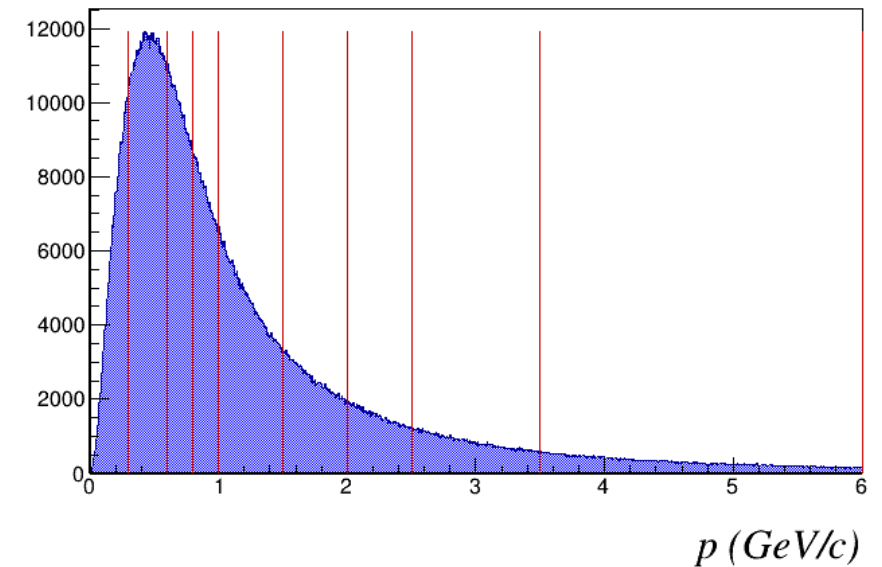
STRAW has gap between octants.



SpdRoot set-up



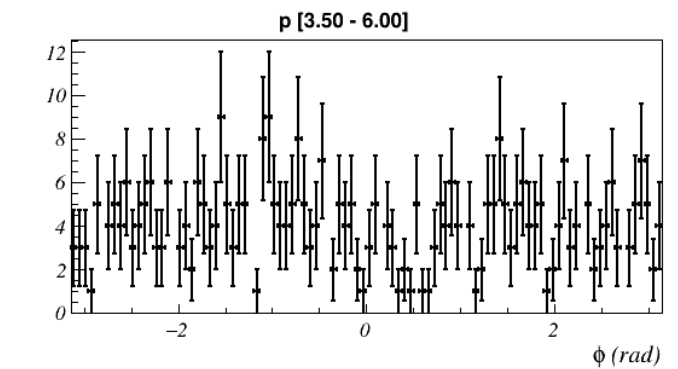
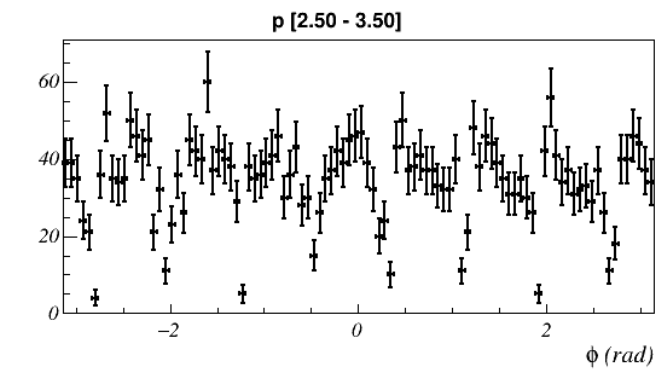
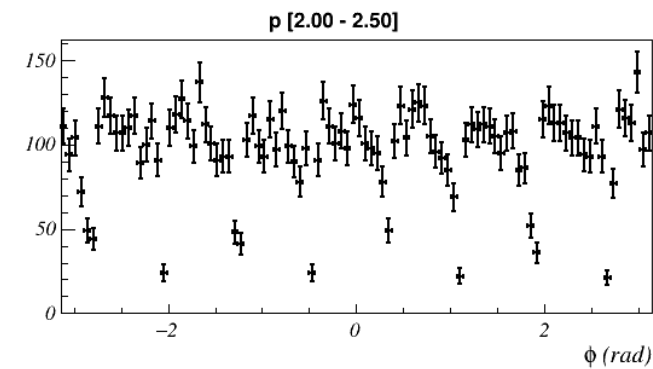
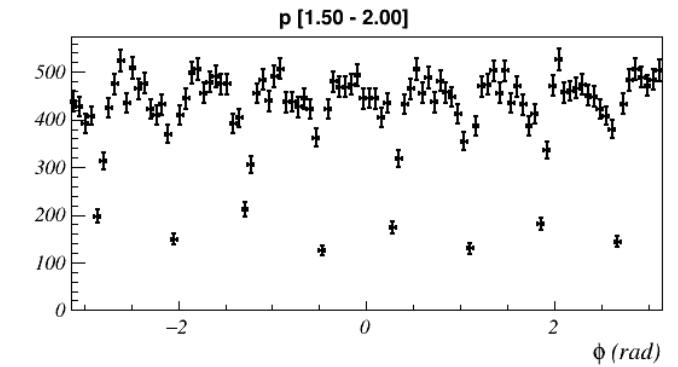
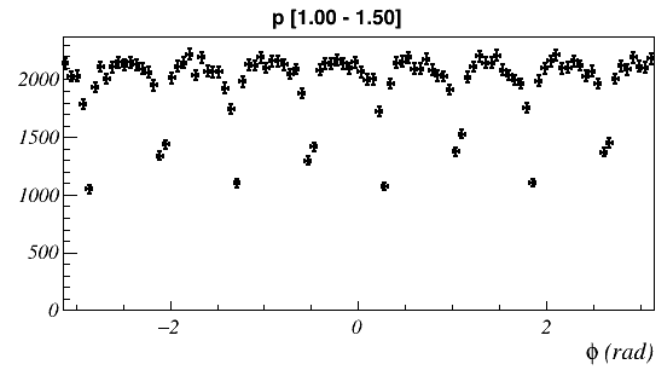
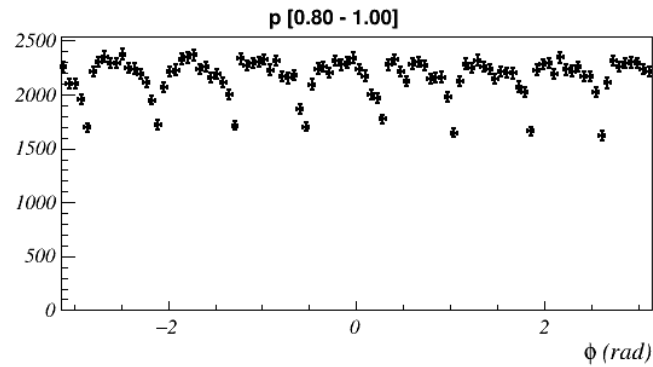
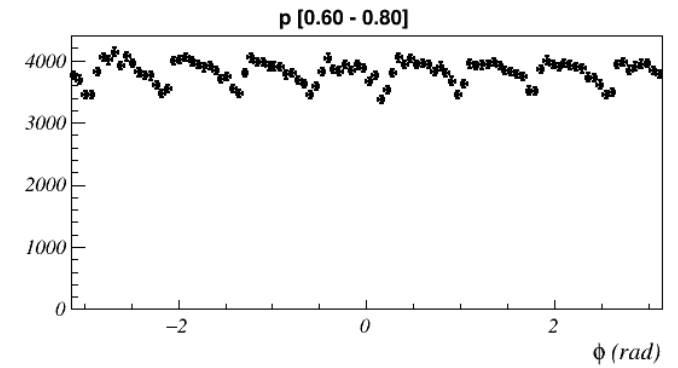
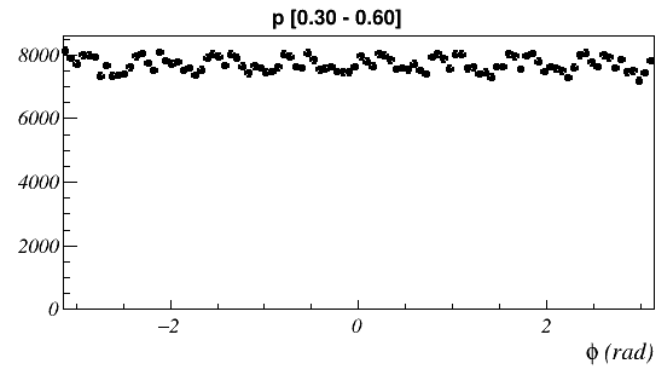
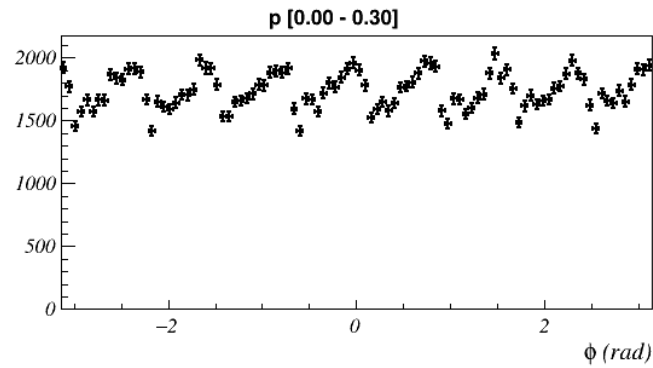
- Track Selection:**
- Track from PV
 - Positive pions
 - Select good tracks



Minimum bias (SoftQCD:all = on), pp 27 GeV events

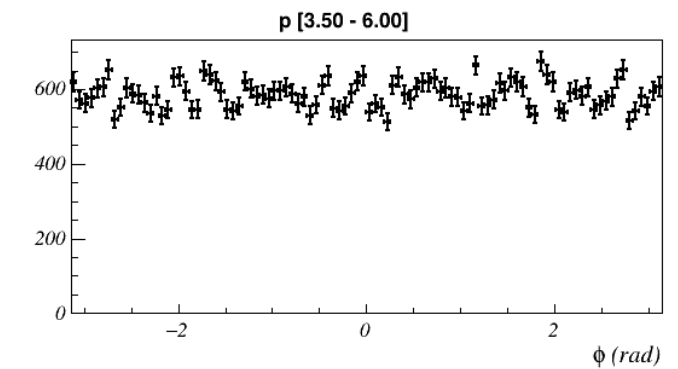
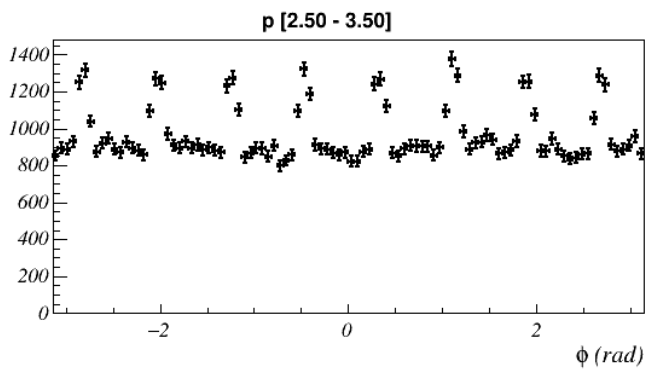
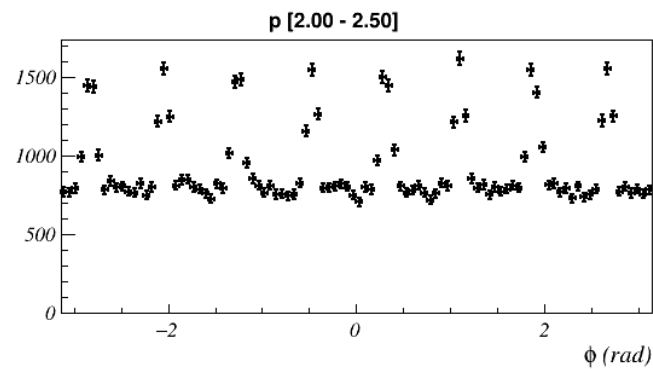
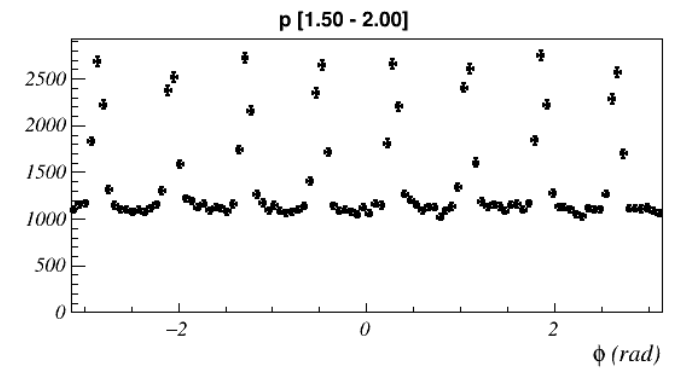
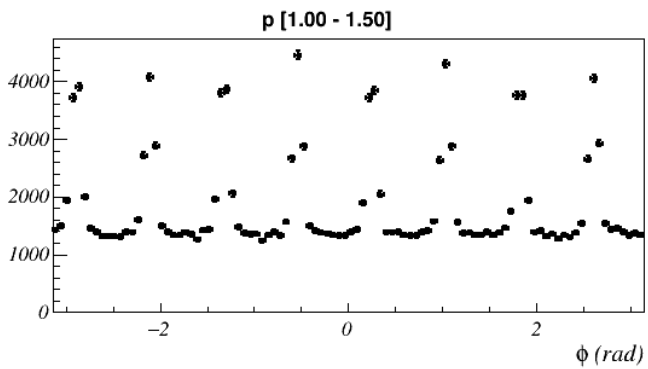
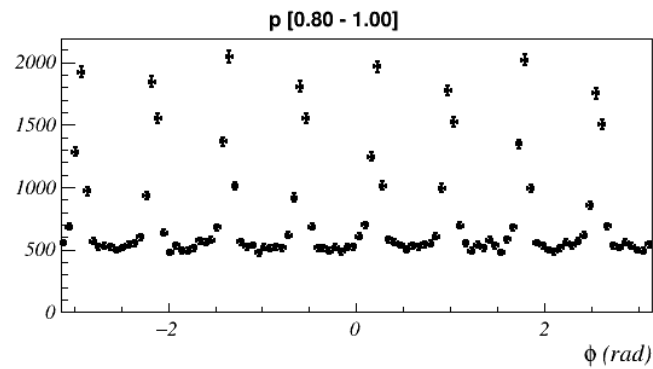
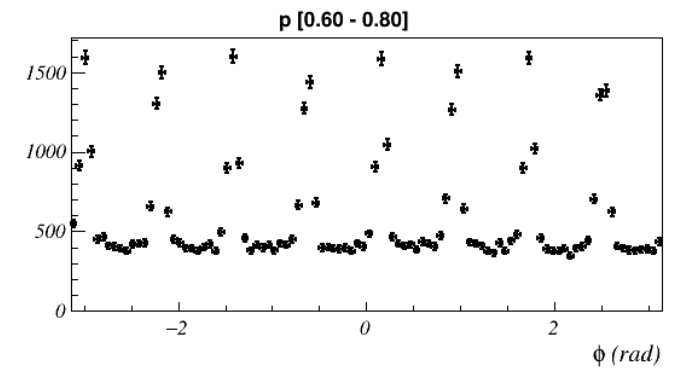
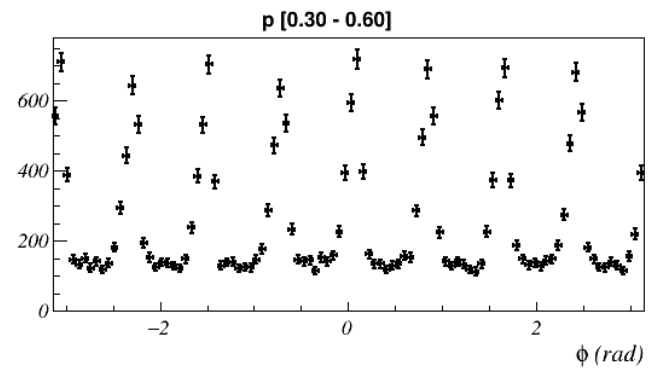
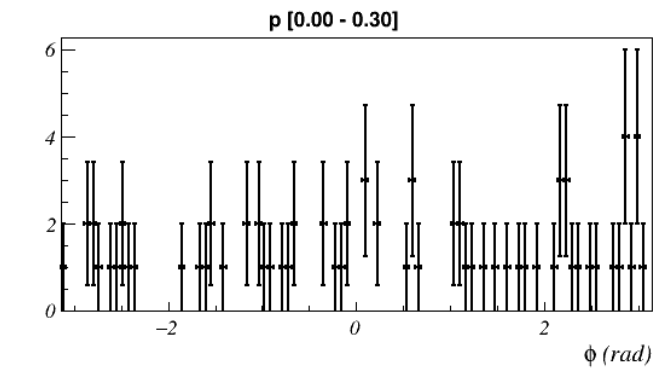
Phi in p bins: Barrel

End-Cap hits = 0



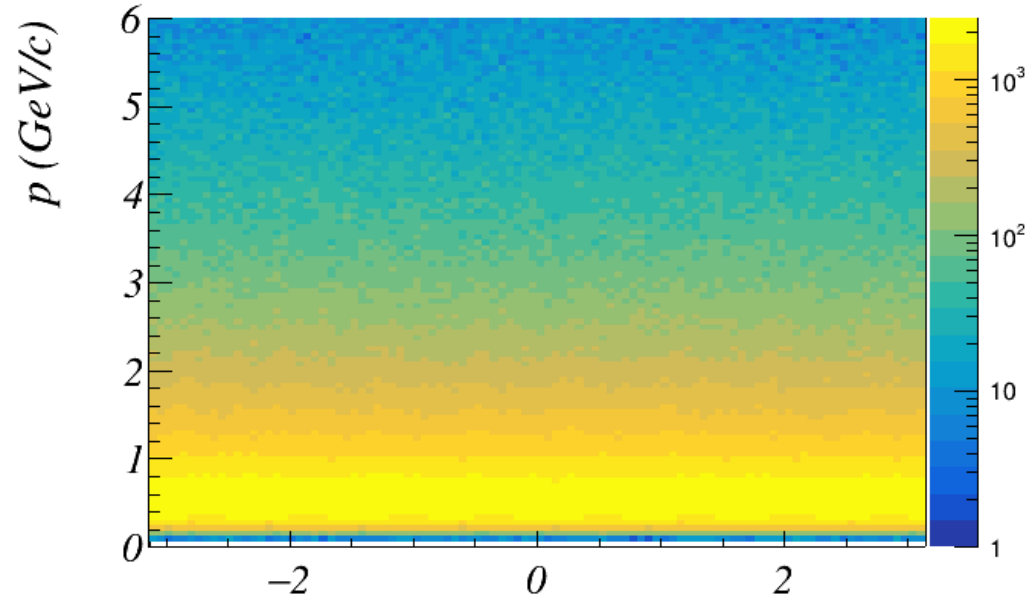
Phi in p bins: End-Caps

Barrel hits = 0

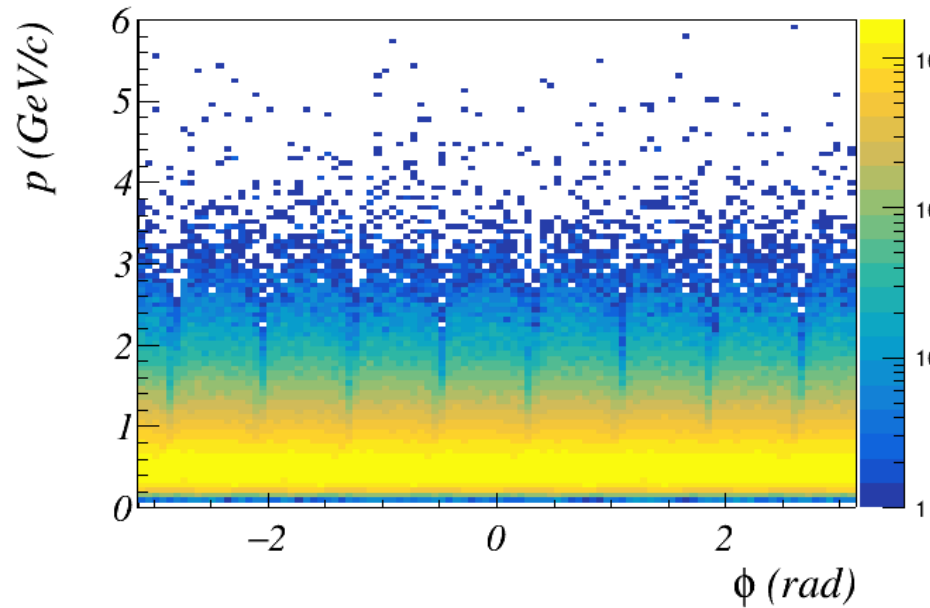


Phi vs P

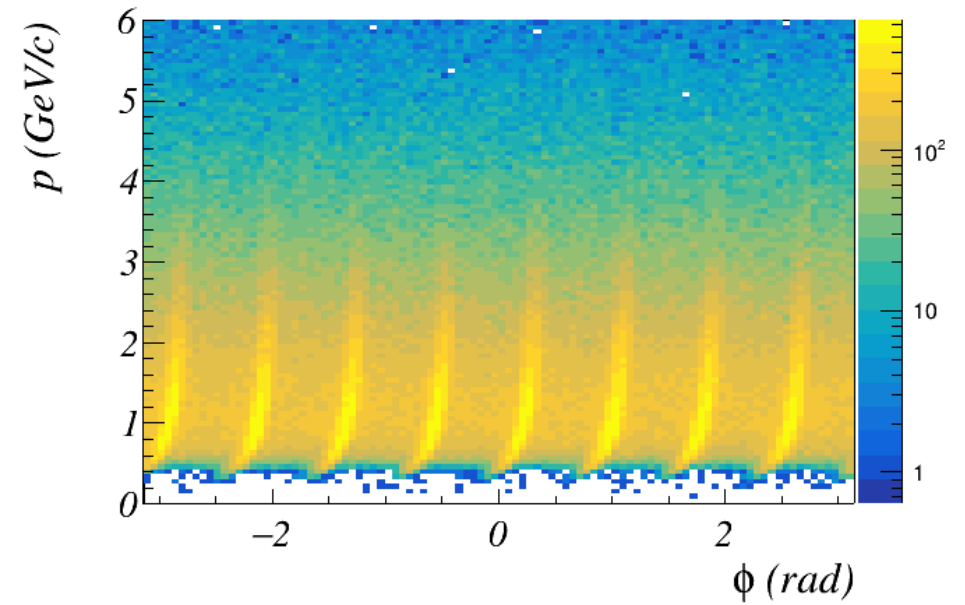
ALL



Barrel



End-Cap



Conclusion

- The azimuthal distribution of the positive pions in the different bins of momentum was plotted.
- It is necessary to check how the azimuthal modulation introduced by *STRAW* will affect on the extraction of azimuthal asymmetries.

Backup

Phi in bins momentum

Select track good fitpars->GetIsGood()

