# Follow up of the MC Tutorial
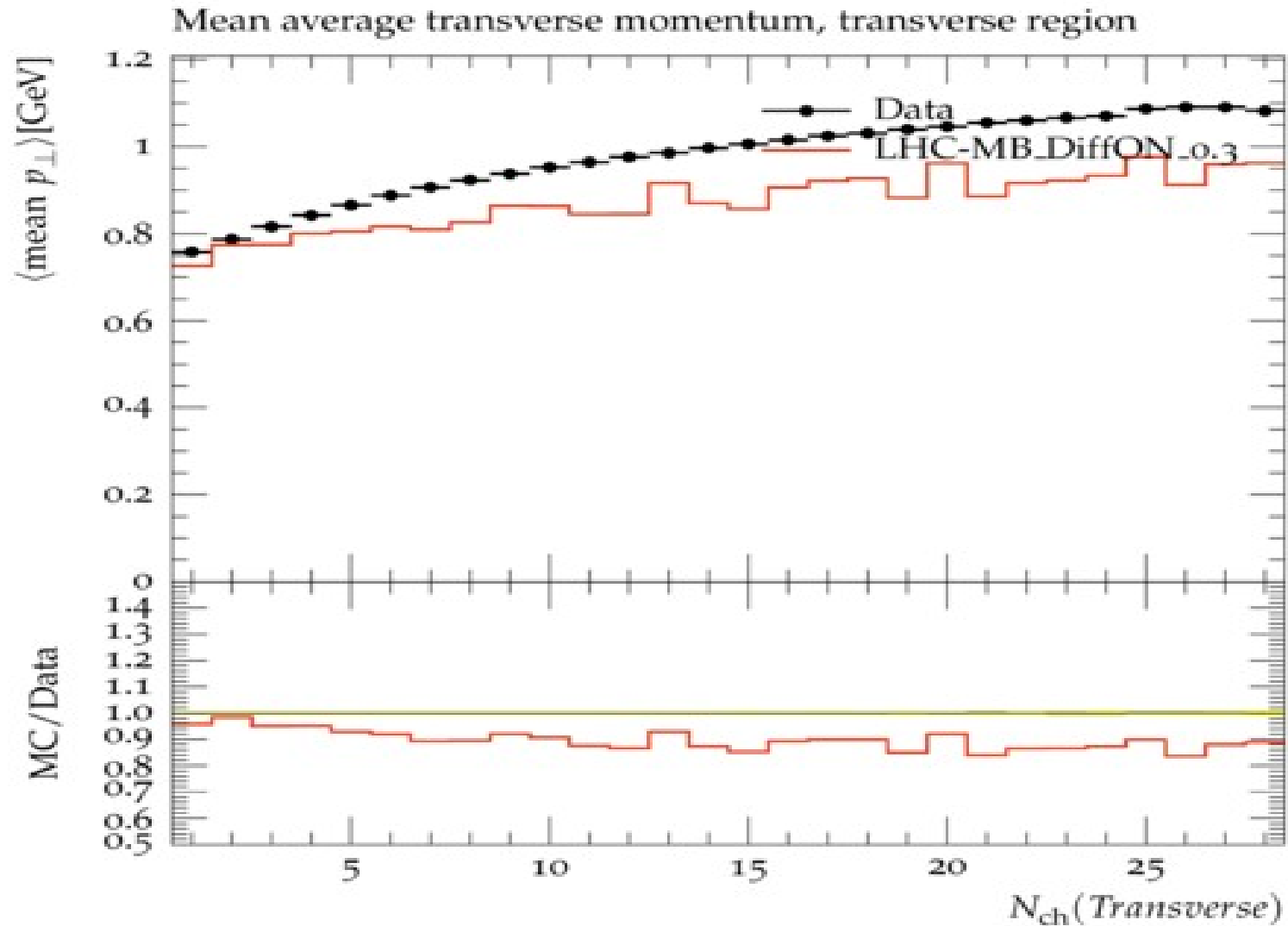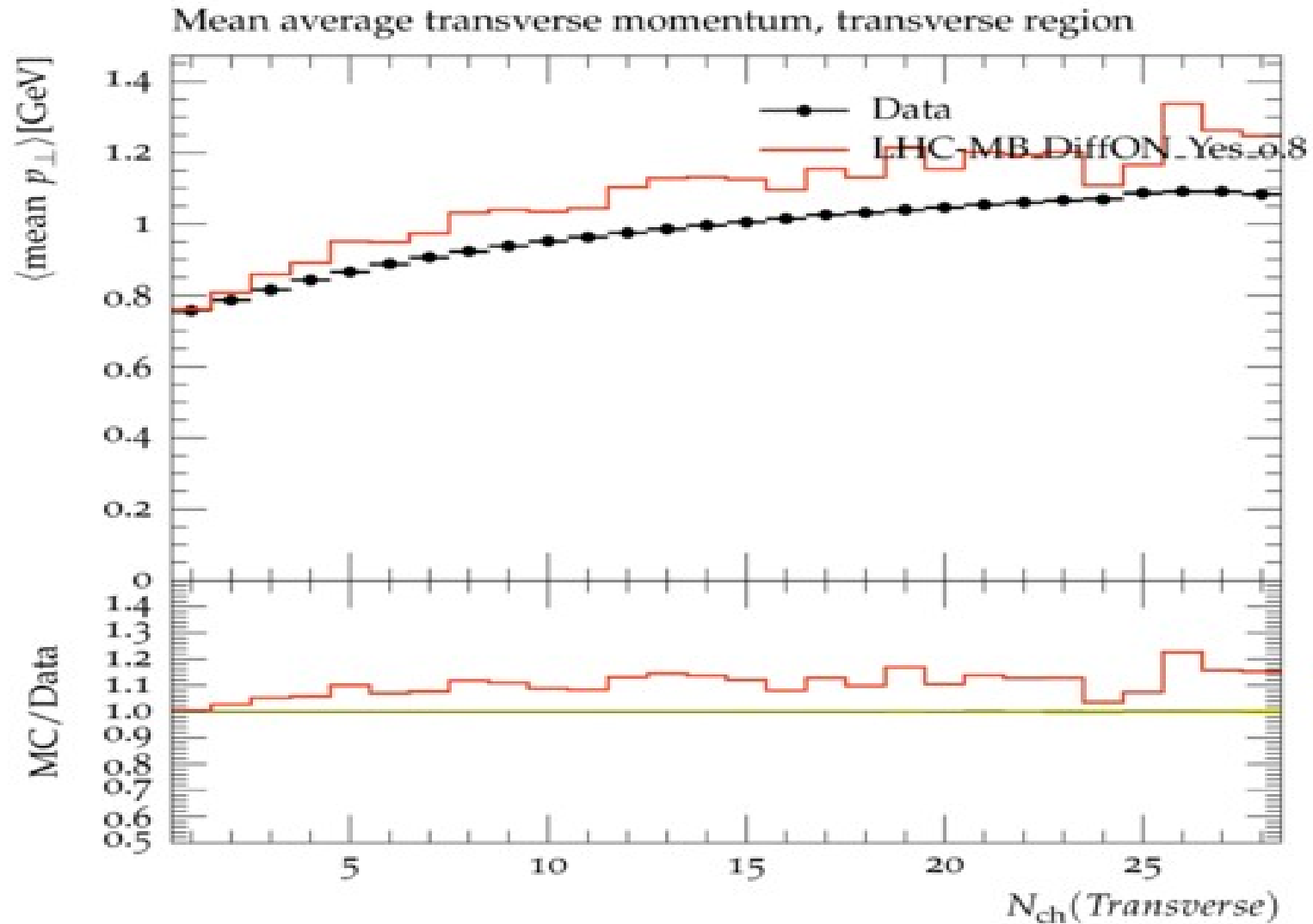
**Meena , Amandeep Kaur**
**Panjab University, India**
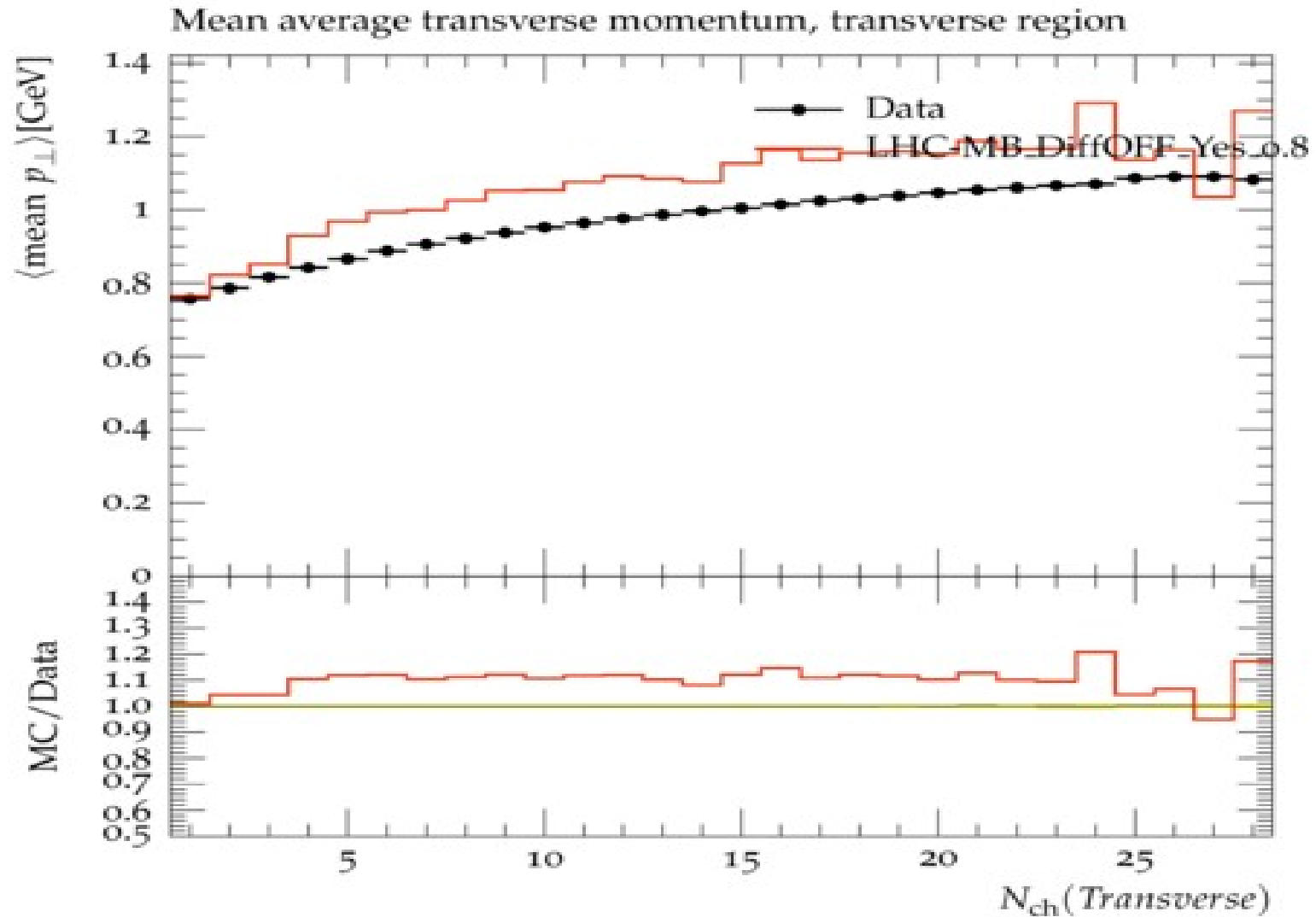
# Comparison of 2017 UE with diffraction ON and CR OFF



Mean average transverse momentum, transverse region

# Comparison of 2017 UE with diffraction ON and CR ON



Mean average transverse momentum, transverse region

# Comparison of 2017 UE with diffraction OFF and CR ON



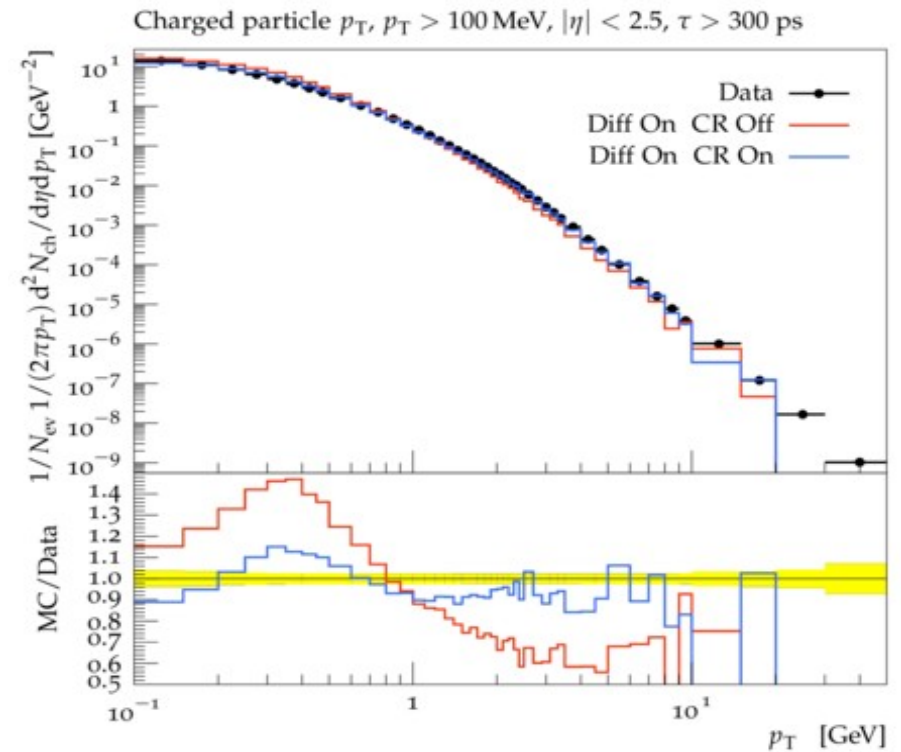Mean average transverse momentum, transverse region

# Charged particle $P_T$, $P_T$ > 100 MeV , $|\eta|$ < 2.5

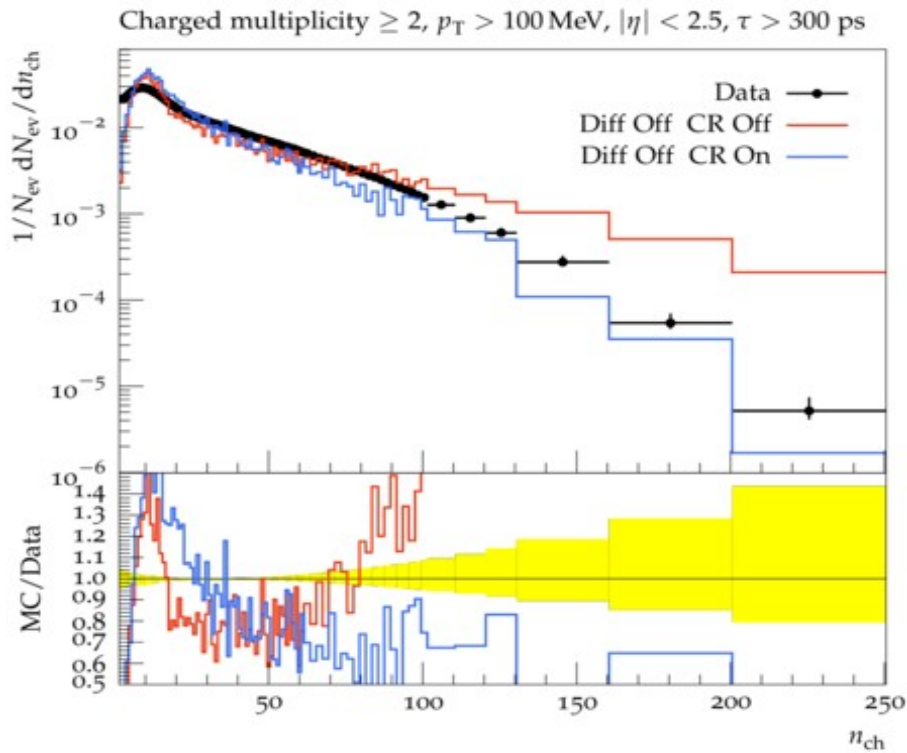**Comparison of 2016 MB data events with diffraction OFF and CR ON & OFF**
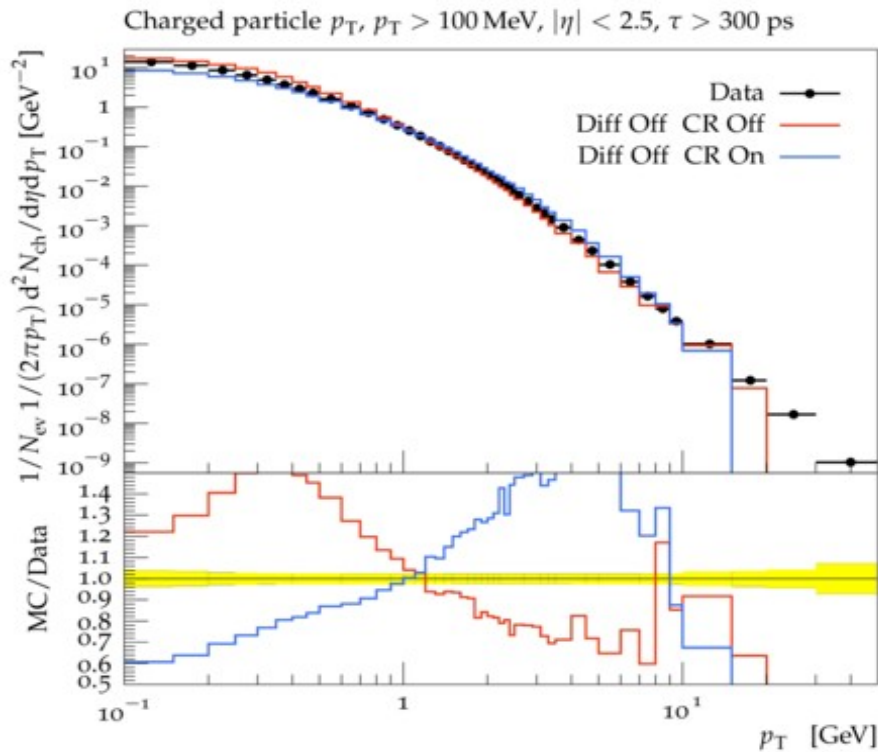
**Comparison of 2016 MB data events with diffraction ON and CR ON & OFF**

# Charged multiplicity ≥ 2, $P_T$ > 100 MeV , |η| < 2.5

**Comparison of 2016 MB data events with diffraction OFF and CR ON & OFF**

**Comparison of 2016 MB data events with diffraction ON and CR ON & OFF**

# Charged particle η, P$_T$ > 100 MeV , |η| < 2.5

**Comparison of 2016 MB data events with diffraction OFF and CR ON & OFF**

**Comparison of 2016 MB data events with diffraction ON and CR ON & OFF**
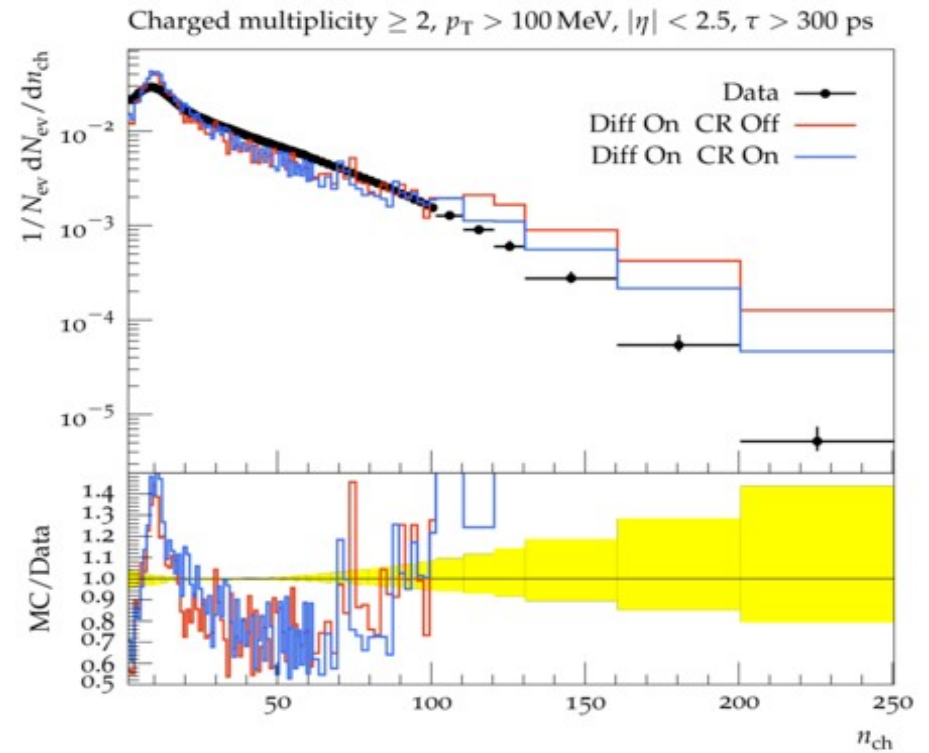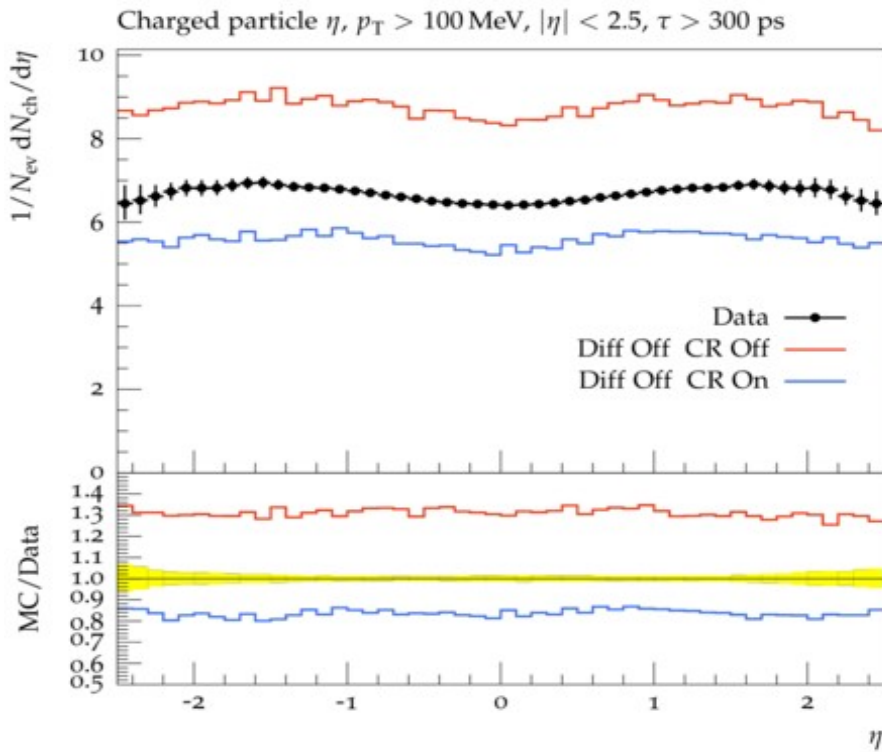


Charged particle $\eta$, $p_T$ > 100 MeV, $|\eta|$ < 2.5, $\tau$ > 300 ps

Data
Diff Off CR Off
Diff Off CR On

Charged particle $\eta$, $p_T$ > 100 MeV, $|\eta|$ < 2.5, $\tau$ > 300 ps

Data
Diff On CR Off
Diff On CR On

# Average particle P$_T$, P$_T$ > 100 MeV , |η| < 2.5

**Comparison of 2016 MB data events with diffraction OFF and CR ON & OFF**

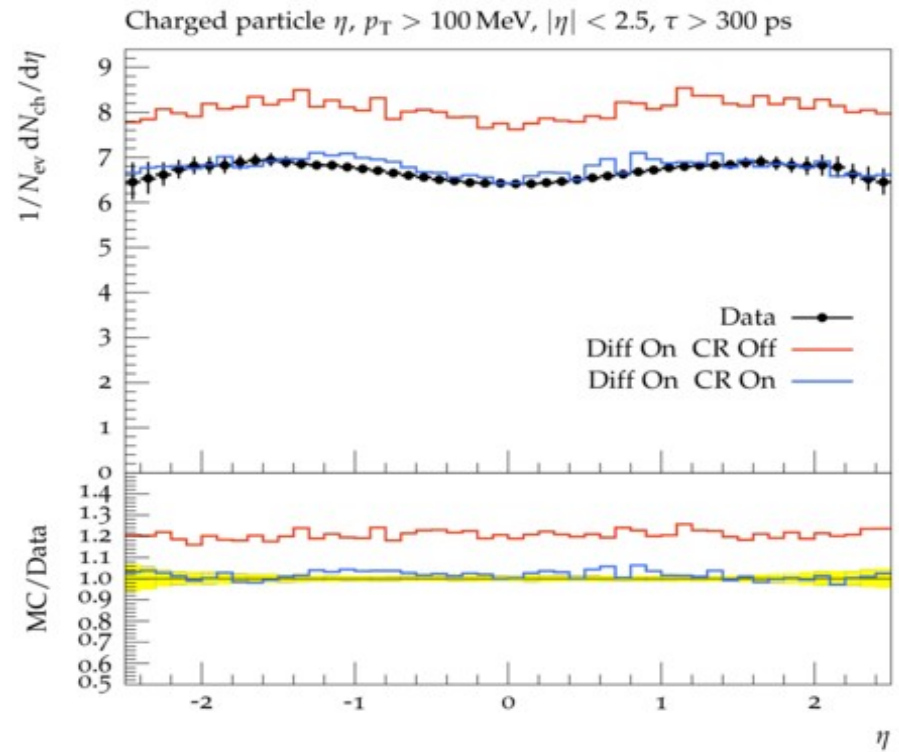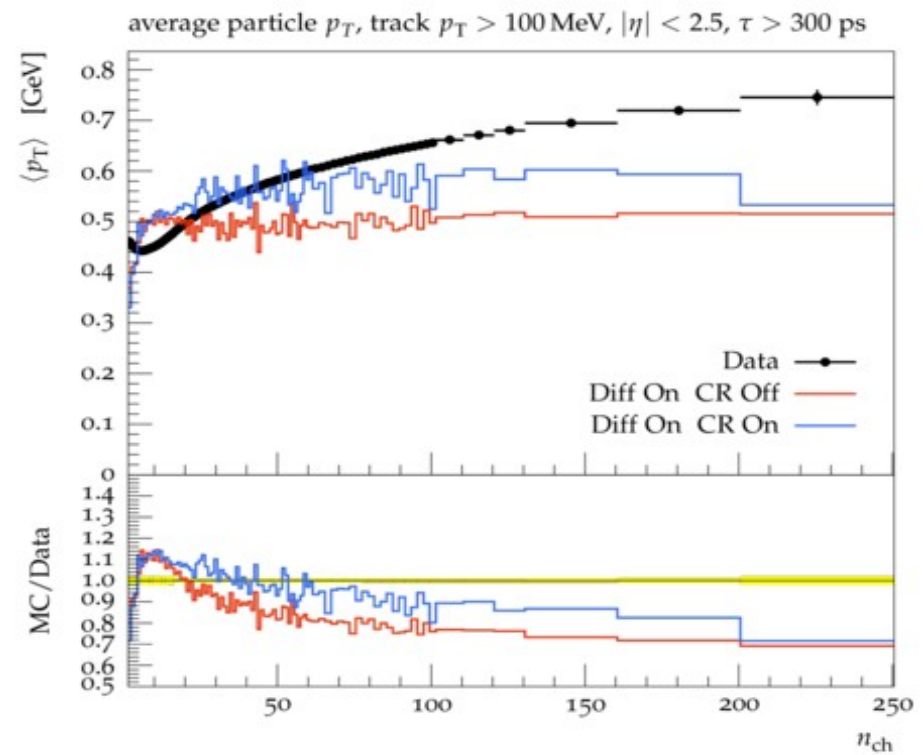**Comparison of 2016 MB data events with diffraction ON and CR ON & OFF**

# Summary

- **By setting the diffraction and colour reconnection On and Off, we have seen the various cases and interesting results.**

- **Our all thanks to Organizers, Stefan and Deepak Kar for giving us an opportunity to learn about MC generator production and their applications.**