

Pythia 8 simulations :

- implement HM trigger selection
- run equivalent of 300 M events HM
- check charged particle multiplicity distributions for HM pp + protons spectra check resonance cocktail and extract angular distribution
- run r_eff pythia source && r_core pythia
- produce B2 as done for data
- add deuterons to anti d



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Correlation of VOM and mid-rapidity multiplicity

- Followed similar approach taken by Maxi (slides)
- Correlate charged particle multiplicities in VOM region with mid-rapidity



V0M: 2.8< η <5.1 and -3.7 < η <-1.7 Mid-rapidity: -0.5 < η < 0.5







- Followed similar approach taken by Maxi (slides)
- Correlate charged particle multiplicities in VOM region with mid-rapidity
- Trigger for different VOM multiplicities and compare mid-rapidity to ALICE measurement
- χ^2 obtained from the mean of the mid-rapidity N_{ch} distribution



Correlation of VOM and mid-rapidity multiplicity



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 $P(N_{ch})/\Delta N_{ch}$





Comparison with EPOS

 $N_{ch}^{VOM} > 127$

From Maxi's (slides)

