

# Status report

## ◆ $\Xi_c^+$ Analysis

- Update report at D2H meeting
  - MC signal fit → Change the fit range
  - Make the new MC
  - Discuss with Jinjoo

### Reproducing the previous analysis

- ◆ MC signal fitting
  - To fit the signal in data, use the sigma value from MC signal only fit results
  - MC Train run : 3559, 3560, 3561 (LHC19g6d1\_Xic\_2018, LHC19g6d2\_Xic\_2017, LHC19g6d3\_Xic\_2016)

**[NOTE]**  
I use the old MC (PYTHIA6) to reproduce previous analysis.  
But I will use **new MC** soon.

4 <  $\Xi_c^+$  < 6 GeV/c  
Sigma = 0.007453

6 <  $\Xi_c^+$  < 8 GeV/c  
Sigma = 0.007453

8 <  $\Xi_c^+$  < 12 GeV/c  
Sigma = 0.009756

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