

Progress Report

Signal MC Study

Taejin Moon
25 February, 2019

Fitting Function

- **Decay channels**

- $\Xi_c(2970)^+ \rightarrow \Xi_c(2645)^0 \pi_1^+ \rightarrow \Xi_c^+ \pi_2^- \pi_1^+$

- Double Gaussian

- $\Xi_c(2970)^+ \rightarrow \Xi_c' \pi^+ \rightarrow \Xi_c^0 \gamma \pi^+$

- Gaussian + Crystal ball function

- Crystal ball function : kind of asymmetric gaussian

- **Part** of Gaussian + x^{-n} (power function) : additional two parameters