

- Xin, Kai, Yuzhen, Ryuta, Shan
- Observation of the doubly charmed baryon  $\Xi_{cc}^{++}$
- Q1: What does the "heavy quark limit" mean?
- A: In the three body decay process, when the heavy quark is heavy enough,  $m \rightarrow \infty$ ,
- it can be simplified for two-body decay. When  $m \approx m(\text{reduced})$  it is different.
- Here the mass of c quark must be heavy enough.
- Q2: Where is the FOCUS?
- A: FOCUS is a heavy-flavor photoproduction experiment located in the Wide Band Area of Fermilab. It is an upgraded version of its predecessor. The experiment accumulated data during the 1996-1997 fixed target run and has fully reconstructed more than one million charm particles using the 'golden mode' decays,  $D^0 \rightarrow K^- \pi^+$ ,  $D^0 \rightarrow K^- \pi^+ \pi^+ \pi^+$ , and  $D^+ \rightarrow K^- \pi^+ \pi^+$ .
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- Q3: What does the figure on page 7 mean?
- A: It's the mass spectrum of  $\Lambda_{cc}^+ K^- \pi^+$ .
- Q4: Does it mention cross section measurements?
- A: No.