



Contribution ID: 72

Type: **Oral presentation**

## Charm physics at BESIII

Thursday 12 October 2023 12:10 (25 minutes)

BESIII has collected 2.93, 7.33, and 4.5 fb<sup>-1</sup> of  $e^+e^-$  collision data samples at 3.773, 4.128-4.226, and 4.6-4.7 GeV, which provide the largest dataset of  $D\bar{D}$ ,  $D_s^*D_s$ , and  $\Lambda_c\bar{\Lambda}_c$  pairs in the world, respectively.

For charmed mesons, we will report the updated measurements of  $D_s^+ \rightarrow \eta^{(\prime)}e^+\nu_e$ ,  $D_s^+ \rightarrow \tau^+\nu_\tau$ , and the form factor studies in  $D_s^+ \rightarrow \pi^+\pi^-e^+\nu_e$ . In addition, we will report the amplitude analyses of Cabibbo-favored and -suppressed  $D_s$  decays, including the observation of a new  $a_0$ -like state at 1.817 GeV. We will also report the improved measurement of the strong-phase difference in quantum-correlated  $D\bar{D}$  decays.

For charmed baryon, we will report the form factor measurement in  $\Lambda_c^+ \rightarrow \Lambda e^+\nu_e$ , the observation of  $\Lambda_c^+ \rightarrow pK^-e^+\nu_e$ , and branching fraction measurements of  $\Lambda_c$  singly-Cabibbo-suppressed decays.

### Is this abstract from experiment?

Yes

### Name of experiment and experimental site

BESIII

### Is the speaker for that presentation defined?

Yes

### Details

Bai-Cian Ke, Professor, Zhengzhou University, China

### Internet talk

Yes

**Author:** Dr KE, Bai-Cian

**Presenter:** Dr KE, Bai-Cian

**Session Classification:** Parallel Session 1

**Track Classification:** High Energy Particle Physics