Contribution ID: **69** Type: **Talk**

BNV/LNV searches in charmonium decays at BESIII

Thursday, 30 July 2020 09:25 (15 minutes)

The observed matter-antimatter asymmetry in the universe composes a serious challenge to our understanding of nature. BNV/LNV decay has been searched in many experiments to understand this large-scale observed fact. In the case of e+e- collision, few experiments are performed. Here we proposed to search BNV and LNV with the world largest J/psi data sets in e+e- c. The BNV and LNV channel J/psi->Lambdac e- +c.c. is studied, and no signal event is observed. The upper limit of the branching fraction is set to be 6.9*10E-8 at 90\% C.L., which is still much higher than the estimation based on SM. For the process with Delta B=2, a search of Lambda-Lambdbar oscillation is performed in the J/psi decay. The results of the oscillation rate and oscillation parameter are determined, respectively.

I read the instructions

Secondary track (number)

Presenter: ZHAO, Minggang (Nankai University)

Session Classification: Beyond the Standard Model

Track Classification: 03. Beyond the Standard Model