



Contribution ID: 71

Type: **Parallel-Hadron Structure**

Detecting the pure triangle singularity effect through the $\psi(2S)$ decay

In this talk, the triangle singularity mechanism is investigated in the two reactions of ψ decay, $\psi(2S) \rightarrow p\bar{p}\eta$ and $\psi(2S) \rightarrow \pi^+\pi^-K^+K^-$. They would generate a very narrow peak in the invariant mass spectrum of final states. In these processes, all the involved vertices are constrained by the experimental data. Thus, we can make a precise prediction here. We expect these effects can be observed by the Beijing Spectrometer and Super Tau-Charm Facility in the future.

Primary author: 吴, 佳俊 (University of Chinese Academy of Sciences)

Presenter: 吴, 佳俊 (University of Chinese Academy of Sciences)