



Contribution ID: 298

Type: **Talk**

Charmonium Decays at BESIII

Wednesday 8 September 2021 13:00 (20 minutes)

Although the charmonium spectrum seems to be well investigated, charmonia can still be used as benchmarks to test our QCD predictions, as these states lay in the transition region between perturbative and non-perturbative QCD. Despite the need for experimental confirmations, setbacks arise from limited statistics because of the production processes of all non-vector states. The properties and many decay channels of some charmonium states (such as h_c or $\eta_c(2S)$) are still far from being known.

Since 2009, BESIII has been scanning and investigating the charmonium region to shed light on open questions. Thanks to its unique J/ψ ; and $\psi(2S)$ data sets, BESIII could overcome statistical limitations.

Recent results on charmonium decays from BESIII are presented.

Primary author: JIANG, Houbing (Shandong University)

Presenter: JIANG, Houbing (Shandong University)

Session Classification: Hadron spectroscopy and exotics

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