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Recent results on charmed meson decays at BESIII

Thursday, 6 September 2018 17:00 (20 minutes)

The BESIII experiment at BEPCII accumulated the world's largest e+e- collision samples at 3.773 and 4.178 GeV. In (semi-)leptonic decay aspect, we have studied the purely leptonic decays D+ -> tau+v and D_S+->mu+v, and the semi-leptonic decays of D0 to K(pi)- μ v, D+ -> μ v mu+v, D+(_S) -> μ v eta(') ev and D_S+->K(*)0 e+v. We will report the improved measurements of the branching fractions of these decays and the CKM matrix elements |Vcs(d)|, the D(s)+ decay constants, the form factors of D(s) semi-leptonic decays. In hadronic decay aspect, we will report the measurements of the branching fractions of D0(+) -> PP (P=Peudecalor) decays, the observations of baryonic decay Ds+ -> μ v pn-bar, the pure W-annhilation decay Ds+ -> μ v omega pi+ and scs decay Ds+ -> omega K+. In rare decay aspect, we will report the upper limit of branching fractions of radiative decay D+ -> μ v gamma e+v, c quark unchanged decay D+ -> D0e+v and FCNC process D -> μ v h(h)e+e-.

Presenter: SHAN, Xinyu (University of Science and Technology of China)Session Classification: Hadron structure, spectroscopy and dynamics