

MEETING OF THE AMERICAN PHYSICAL SOCIETY DIVISION OF PARTICLES AND FIELDS

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Study of Lambda_c decays at BESIII

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BESIII collected about 567 pb-1 of e+e- annihilation data at Ecm = 4.6 GeV which is close to the mass threshold of Lambda_c pair. By employing this unique data set, we determine the absolute branching fractions for 18 decays of charmed baryon Lambda_c for the first time with much improved precision, which are important for both charmed baryons and B physics. We also report observations of other hadronic and semi-leptonic decays, such as Lambda_c+ -> n K_S pi+ and Lambda_c -> p pi+ pi-. The former provides the first complementary data to the previously measured decays involving a proton. Additionally, we look for some inclusive hadronic and semi-leptonic final states in Lambda_c decays.

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