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Advances in Open Charm Physics at CLEO-c

Cornell's Laboratory for Elementary Particle Physics hosts the CLEO-c experiment, which over the last several years, has collected data near the charm production threshold. The full data sample, now completely in hand, includes over 10 million D mesons - a particle containing a charm quark and an anti-up or anti-down quark, approximately 1.2 million Ds mesons - a particle containing a charm quark and an anti-strange quark. These unprecedented "charm" data samples were collected in the superb CLEO-c detector, which provides excellent electromagnetic calorimetry, charged particle tracking and identification, and near 4π solid angular coverage.

A survey of CLEO Open Charm results will be presented. These results substantially extend the reach and understanding of heavy flavor physics. The world community will benefit as results from CLEO-c extend the reach of the Belle experiment at KEK and LHCb experiment at CERN and lay foundations for the physics program of the BESIII experiment in China.

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