

Abstract Submitted
for the APR14 Meeting of
The American Physical Society

Measurement of the cosmic ray energy spectrum with IceCube
BAKHTIYAR RUZYBAYEV, University of Delaware, ICECUBE COLLABORATION — We report on the measurement of the all-particle cosmic ray energy spectrum with IceCube. The presented spectrum is in the energy range from 1.58 PeV to 2.5 EeV using the 3 years of data from the IceTop air shower array, compared to the previously reported data from a single year. IceTop is the surface component of the IceCube Neutrino Observatory at the South Pole. The measured energy spectrum exhibits clear deviations from a single power law above the knee around 4 PeV and below 1 EeV.

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Date submitted: 10 Jan 2014

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