

REANALYSIS OF ENERGY SPECTRUM AND COMPOSITION IN THE DICE EXPERIMENT

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The DICE experiment recently has shown an indication of an increasing proton component to the primary composition above 1 PeV. We present a reanalysis of the DICE data, including revised energy spectra and primary composition measurements between 100 TeV and 10 PeV. The reanalysis includes new detector effects including improved simulation of electronic response/saturation, deadspace between pixels, and optical effects of spherical aberration and coma. The new DICE results will be compared to previous DICE results as well as other recent data from competing and complementary experiments.