EAS DEPTH OF MAXIMUM ESTIMATION BY CHERENKOV LIGHT LATERAL DISTRIBUTION AND PULSE SHAPE

V. I. Galkin
Faculty of Physics of Moscow State University, Leninskie Gory, Moscow 119899, Russia.
glk@dec1.npi.msu.su/Fax: (7)-(095)-939-35-53

A sample of 1PeV, 2PeV and 5PeV EAS was simulated using CORSIKA 5.61/QGSJET with CHERENKOV option on for Tunka array conditions. The Cherenkov light data are analyzed from the point of view of shower parameter determination, primarily X_{max} and E_0. Some general conclusions are drawn on the informativity of the light lateral distribution and pulse shape characteristics.