

LPM EFFECT AND COSMIC RAY AIR SHOWER DEVELOPMENT.

K. Belov (1), H.Y Dai(1)

Department of Physics, University of Utah

The software used for this Monte Carlo simulation will be described. The cosmic ray air shower development fluctuations due to suppression of pair production and bremsstrahlung caused by LPM effect at highest energies will be shown. The influence of the earth magnetic field will also be demonstrated. The summary effect on the observed ultra-high energy air showers will be discussed.