

LPM effect and cosmic ray air shower development

K. Belov and H. Y. Dai

Department of Physics, University of Utah

Abstract. 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 ener-

gies 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.