

MONTE CARLO SIMULATION OF THE HIRES EXPERIMENT

HiRes Collaboration

The Monte Carlo simulation software used for the HiRes detector will be described. A comparison between data and simulated detector response for various physical observables will be shown. The resolution functions of shower-detector distance (R_p), arrival direction (open angle), shower maximum depth (X_{max}) and primary energy (E_0) have been determined for both monocular and stereo analysis techniques and will be described in this report.