

Main goal of this thesis is to learn about detector ATLAS, mainly about his hadron calorimeter Tile Calorimeter. Next step is get knowledge about processing date with program ROOT. It is necessary to test and monitor detector for example by muons from cosmic rays before his initiation. We analysed real experimental date from single module of Tile Calorimeter here. We found out signal-to-noise ratio. Then we separed out signal and noise and we found cells which muons flew through.