

# Abstract

The purpose of this bachelor thesis is to apprise reader with the basics of measuring energy of particles with calorimeter which are being created in collisions on particle and heavy ion colliders. This research is mentioned in chapters 1 and 2. Another object is presentation electromagnetic and hadron calorimeters for accelerator complex GSI and FAIR in Darmstadt, Germany. There are mentioned in particular moduls for ECAL and PSD calorimeter and also the read out electronic. The results and the description of modul testing are presented in chapter 3.