Contribution ID: 83

## Data Acquisiton and Trigger of the CBM experiment

Wednesday 11 September 2013 17:20 (40 minutes)

The CBM experiment is being designed to measure heavy-ion collisions at very high interacton rates. The interesting signals are extremely rare and their signatures are complex. These conditions call for a novel DAQ and trigger concept which is not limited by latency but by throughput. In particular, there will be no hardware trigger; online data reduction will be performed in software on a dedicated computing farm, the First-Level Event Selector (FLES). Its challenge is to reduce the raw data volume by up to three order of magnitude to a recordable rate. In this presentation, we will discuss the DAQ and FLES concept as well as the software algorithms used for online data reconstruction and selection.

Presenter: FRIESE, Volker (GSI Darmstadt)

Session Classification: Session 12