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Data Acquisiton and Trigger of the CBM experiment

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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.

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