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Computing and Ground Data Handling for AMS-02 Mission

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The AMS-02 detector will be installed on ISS ifor at least 3 years. The data will be transmitted from ISS to NASA Marshall Space Flight Center (MSFC, Huntsvile, Alabama) and transfered to CERN (Geneva Switzerland) for processing and analysis.
We are presenting the AMS-02 Ground Data Handling scenario and requirements to AMS ground centers: the Payload Operation and Control Center (POCC) and the Science Operation Center (SOC). The Payload Operation and Control Center is where AMS operations take place, including commanding, storage and analysis of house keeping data and partial science data analysis for rapid quality control and feed back. The AMS Science Data Center receives and stores all AMS science and house keeping data, as well as ancillary data from NASA. It ensures full science data reconstruction, calibration and alignment; it keeps data available for physics analysis and archives all data.
We also discuss the AMS-02 distributed data management between 25 Universities and Labs in Europe, USA and Asia.

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