Status of the AMS Experiment

July 31st, 2010

Roberto Battiston
AMS: A TeV precision, multipurpose particle physics spectrometer in space.

- **TRD**
  - Identify e+, e-

- ** Silicon Tracker**
  - Z, P

- **TOF**
  - Z, E

- **RICH**
  - Z, E

- **ECAL**
  - E of e+, e-, γ

Particles and nuclei are defined by their charge (Z) and energy (E ~ P).

Z, P are measured independently from Tracker, RICH, TOF and ECAL.
Silicon layer 1

Silicon layers 2 - 8

Silicon layer 9

TRD

TOF 1, 2

TOF 3, 4

Magnet and Veto Counters

RICH

ECAL

Interface with ISS

Radiator + 650 processors

3m x 3m x 3m - 7.5 tons

on STS-134
9-20 August: Test Beam at CERN

26 August: U.S. Air Force C-5 will transport AMS to KSC

November 15th: Launch Ready, manifested on February 28th, 2011

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