

XVI International Symposium on Very High Energy Cosmic Ray Interactions (ISVHECRI 2010)



Contribution ID: 117

Type: **Invited**

Status of AMS

Tuesday, 29 June 2010 11:00 (20 minutes)

The Alpha Magnetic Spectrometer (AMS) is a major particle physics experiment on the International Space Station (ISS). AMS is a general purpose particle physics spectrometer using the technologies commonly employed at CERN and Fermilab and upgraded for space applications. The properties of the AMS detector are that it will provide a coordinate resolution of 10 microns, a timing resolution of 150 ps and a velocity resolution of 1 part in 1000. It will simultaneously measure e^+ , e^- , p , p -bar and nuclei up to the TeV region. For its 20 year stay on the ISS it will provide a sensitive search for the origins of Dark Matter, the existence of antimatter, the existence of strangelets and so forth.

AMS is a DOE sponsored international collaboration involving 600 scientists from 16 countries. It is schedule to be transported by the Space Shuttle to ISS in November 2010.

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Session Classification: Balloon and Satellite Experiments

Track Classification: Balloon and satellite experiments