



Search for a Dark Matter Signature with the Alpha Magnetic Spectrometer (AMS-02) Experiment

Fact Sheet

Project Information

DARKMATTERAMS

Grant agreement ID: 304264

Status

Closed project

Start date End date

1 March 2012 29 February 2016 Funded under

FP7-PEOPLE

Overall budget

€ 100 000

EU contribution

€ 100 000

Coordinated by

MIDDLE EAST TECHNICAL

UNIVERSITY

Turkey

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Objective

Alpha Magnetic Spectrometer is a multi-purpose particle physics experiment that has been carried to the International Space Station with the launch of Space Shuttle Endeavour flight STS-134, that took place on 16th of May, 2011. AMS-02 was installed to its final position on the 19th of May, 2011 and has been taking cosmic-ray data since. AMS has already collected billions of particles in low earth orbit and is now under a calibration and data validation period. AMS will measure cosmic-ray spectrum for photons and charged particles, as well as for primary elements upto Fe with unprecedented accuracy. Specifically, the energy spectra of photons, electrons, positrons and anti-protons can contain signatures of dark-matter annihilation in the galactic halo and METU team will concentrate efforts on understanding these spectra.

Field of science

/natural sciences/physical sciences/theoretical physics/particles
/natural sciences/physical sciences/theoretical physics/particles/photons
/natural sciences/physical sciences/astronomy/astrophysics/dark matter

Programme(s)

Topic(s)

Call for proposal

FP7-PEOPLE-2011-CIG

Funding Scheme

MC-CIG - Support for training and career development of researcher (CIG)

Coordinator



MIDDLE EAST TECHNICAL UNIVERSITY

Address

Activity type

EU contribution

Dumlupinar Bulvari 1 06800 Ankara Higher or Secondary Education Establishments € 100 000

Turkey

Website 🗹

Contact the organisation 🗹

Administrative Contact

Irem Dikmen Toker (Prof.)

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Permalink: https://cordis.europa.eu/project/id/304264/

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