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## **The Time Of Flight Detector of the AMS-02 Experiment on the International Space Station, Operations and Performances in Space.**

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The Alpha Magnetic Spectrometer AMS-02 has been installed in May 19th 2011 on the International Space Station, where it will detect cosmic rays for the next decades. AMS-02 with its accurate measurements up to the TeV scale will contribute to our knowledge of the Universe providing the most sensitive search for the existence of primordial anti matter and indirect search for dark matter. The Time Of Flight (TOF) detector of the AMS-02 experiment provides the trigger to the AMS detector, the time of flight and the absolute charge measurements. The flight operations and the performances of the TOF in Space will be presented.

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