

Luminous events and their detection from space with the TUS

Abstract

The Tracking Ultraviolet Setup (TUS) belong to the new generation of Extreme Energy Cosmic Rays (EECRs) space detectors; it is on board of the Lomonosov Satellite launched in 2016. It has a concentrator mirror of 2 square meters and a 256 photomultiplier tubes camera. This experiment has several goals: the detection of EECRs from space; meteorite tracks among others luminous phenomena in the upper atmosphere. To do so, the TUS has several operation modes. In this work we present preliminary results obtained by the TUS on the Extensive Air Showers (EAS) operation mode, recorded from the first semester of 2017.

Primary author(s) : RUIZ HERNANDEZ, Oliver Isac (FCFM-BUAP)

Co-author(s) : MARTINEZ BRAVO, Oscar M. (FCFM-BUAP)

Presenter(s) : RUIZ HERNANDEZ, Oliver Isac (FCFM-BUAP)