



Contribution ID: 1289

Type: **Poster contribution**

Transient luminous events registered with a ground pinhole

Tuesday 4 August 2015 16:00 (1 hour)

The near UV background level at the atmosphere has several sources, such as transient luminous events, trace of micro-meteorites and human activities by example. In order to evaluate the possibility to detect ultra high energy cosmic ray fluorescence signals from the space, it is necessary to measure and monitor this UV background level. Nature of the UV atmospheric transient events is not well known yet and more experimental data are needed. By that, we constructed a fast imaging detector, a pinhole camera. The pinhole camera design fulfills the requirements of FOV, compactness, reliability, and attached to a fast position sensitive detector PSD will allow us to obtain 2d-images, as proposed in the near future space mission TUS (tracking ultraviolet system). In this work we present the shape and energy of some TLEs recorded in the Sierra Negra Volcano near Puebla, Mexico (4300 m.a.s.l).

Collaboration

LAGO

Registration number following "ICRC2015-I"

614

Author: PONCE, Epifanio (BUAP)**Co-authors:** Dr SALAZAR, Humberto (BUAP); Dr MARTINEZ, Oscar (BUAP)**Presenter:** PONCE, Epifanio (BUAP)**Session Classification:** Poster 3 CR**Track Classification:** CR-EX