30th International Cosmic Ray Conference

Contribution ID : **636** Type : **Poster**

A study of strangelets propagation through terrestrial atmosphere

Abstract content

The propagation of relativistic strangelets in terrestrial atmosphere is investigated. A model is proposed taking into account strangelets fragmentation when colliding with air nuclei together with the successive energy losses during penetration. New constraints on initial mass and energy are yielded for arrival at various depths and the detection capabilities of high altitude cosmic ray experiments are discussed.

If this papers is presented for a collaboration, please specify the collaboration

Summary

Reference

Primary author(s) : MOHAMMED SAHNOUN, Fatma Zouleikha (Department of Astrophysics, CRAAG. BP 63, Bouzareah, 16340 Algiers, ALGERIA)

Co-author(s) : Dr. ATTALLAH, Reda (Physics Department, Badji-Mokhtar University, BP 12, 23000 Annaba, ALGERIA.); Prof. CHAMI, Ahmed Chafik (Physics Department, Houari Boumediene University of Sciences and Technology, BP32 El-Alia, Bab-Ezzouar, Algiers, ALGERIA)

Presenter(s) : MOHAMMED SAHNOUN, Fatma Zouleikha (Department of Astrophysics, CRAAG. BP 63, Bouzareah, 16340 Algiers, ALGERIA)

Session Classification : Posters 3 + Coffee

Track Classification : HE.3.4