



Dr. Arturo Menchaca

Universidad Autónoma de México

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Muon imaging of pyramids and volcanoes

The internal imaging of large material volumes, such as ancient pyramids and volcanoes, using cosmic muons is an innovative technique, which is undergoing rapid development. The method consists in measuring the attenuation of the cosmic muon flux traversing the investigated volume. The talk describes applications of such technique to the search for empty cavities in the Pyramid of the Sun, Teotihuacan, as well an ongoing project to locate and dynamically monitor the lava conduct of the Popocatepetl, an active pyroclastic volcano representing potential risk to > 25 million people living in nearby Mexico City, and Puebla City.

Department Contact Information

Veronica Castellanos

Veronica.Castellanos@utsa.edu

<http://physics.utsa.edu>

