

Recent updates on the DIAPHANE project of muon tomography

MARTEAU, Jacques^{1*} ; GIBERT, Dominique² ; DE BREMOND D'ARS, Jean² ; JOURDE, Kevin³

¹Institut de Physique Nucleaire de Lyon, Univ Claude Bernard, UMR 5822 CNRS, Lyon, France, ²Geosciences Rennes, Univ Rennes 1, UMR 6118 CNRS, Rennes, France., ³Institut de Physique du Globe de Paris, Sorbonne Paris Cite, Univ Paris Diderot, UMR 7154 CNRS, F.

Density radiography with atmospheric muons aims at determining the density variations or the absolute densities of geological or large volume bodies. The density is measured through the screening effect on the incident muons flux induced by the presence of matter, like for the X rays in a standard medical radiography. We will present recent updates on the DIAPHANE project which studies volcanoes with this technique since many years and is now deployed in the Lesser Antilles (Guadeloupe, Montserrat), Italy (Etna), the Philippines (Mayon) and in underground sites (France and Switzerland). Time-of-flight techniques have been developed to improve the data analysis and provide significant results.

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