

Mt. Vesuvius, Stromboli and the MU-RAY Project

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The volcanological features of Mt. Vesuvius and Stromboli will be reviewed. A special attention will be given to the eruptive history of Mt. Vesuvius.

The experimental problems occurring for a radiography of Mt. Vesuvius and Stromboli mainly originate from the large thickness of rock to be traversed by muons. A radiography is very challenging and requires a new detector with large area and very strong background rejection power. This is the aim of the MU-RAY project, which foresees an electronic detector based on the use of plastic scintillators read out by wavelength shifting fibres and Silicon Photo Multipliers.

The ongoing radiography of the crater region of Stromboli using the emulsion technique will be outlined as well.