



ID de Contribution: 44

Type: **Ordinary**

ANTARES: status and recent results

jeudi 17 mars 2011 17:20 (15 minutes)

ANTARES is an underwater telescope designed to search for high-energy neutrinos originating from extra-terrestrial sources.

The detection principle relies on the observation of Cherenkov light emitted along the path of the charged leptons resulting from charged current neutrino interactions.

The detector is a 3-dimensional array of photomultiplier tubes, arranged on twelve vertical lines (each housing 75 photomultipliers), placed at a depth of about 2500 meters 40 km off the coast of Toulon, France. The detector has been continuously collecting data in its full configuration since May 2008: at present 5 neutrino per active day are detected.

In this talk a status of the detector operation will be provided and first results on the search for cosmic neutrinos, from point-like and diffuse sources, will be described.

Auteur principal: Dr VECCHI, Manuela (CPPM)

Orateur: Dr VECCHI, Manuela (CPPM)

Classification de Session: Neutrinos to Astroparticles

Classification de thématique: Experiment