



Contribution ID: 263

Type: **Presentation**

## **Multi-Messenger analyses with the ANTARES High Energy Neutrino Telescope**

*Tuesday 24 June 2014 17:55 (15 minutes)*

ANTARES is currently the largest operating neutrino telescope in the Northern Hemisphere, mainly sensitive to TeV neutrinos. Its main goal is the detection of high energy neutrinos from astrophysical sources, which would provide important insights about the processes powering their engines and would help understand the origin of high energy cosmic rays.

To identify unambiguously such sources, ANTARES has developed several online and offline programs to reveal possible time and/or space correlations of neutrino candidates with other cosmic messengers : photons (mainly X-rays and GeV/TeV gamma-rays through the search from Gamma-ray bursts or GeV-flaring blazars, but also in the optical domain through alert and follow-up programs), cosmic rays and gravitational wave bursts detected by the Virgo/LIGO interferometers. Some of the most relevant results of these multi-messenger analyses will be presented in this contribution.

**Author:** DORNIC, Damien (CPPM)

**Co-author:** PRADIER, Thierry (IPHC)

**Presenter:** SÁNCHEZ LOSA, Agustín (IFIC (Spain))

**Session Classification:** Neutrinos

**Track Classification:** Neutrinos