



Contribution ID: 592

Type: **Poster contribution**

Search for signal emission from unresolved point sources with the ANTARES neutrino telescope

Tuesday, August 4, 2015 4:00 PM (1 hour)

We use a two point correlation analysis to look for inhomogeneities in the arrival directions of the high energy muon neutrino candidates detected by the ANTARES neutrino telescope. This approach is complementary to a point source likelihood-based search, which is mainly sensitive to one bright point like source and not to collective effects. We present the results of a search based on this two-point correlation method performed on ANTARES 2007-2012 data, providing constraints on models of a population of point sources too faint to be detected by the likelihood-based method.

Collaboration

ANTARES

Registration number following "ICRC2015-I/"

526

Primary author: GRACIA, Rodrigo (APC)**Co-author:** BARET, Bruny (CNRS)**Presenter:** GRACIA, Rodrigo (APC)**Session Classification:** Poster 3 DM and NU**Track Classification:** NU-EX