



Contribution ID: 11

Type: not specified

## **Astrophysical high energy neutrino point sources search with a False Discovery Rate controlling procedure applied on AMANDA-II 2000-2006 data.**

*Friday, 2 October 2009 11:45 (35 minutes)*

The Antarctic Muon And Neutrino Array (AMANDA) detector is a high energy neutrino detector installed in the Antarctic ice at the Geographic South Pole. Its final configuration, AMANDA-II, was taking data since 2000. Here are presented the analysis of 2000-2006 data with a statistical procedure controlling the False Discovery Rate, hence the confidence level, of a hypothetical discovery. This procedure aims at the detection of neutrino point sources without any assumption about the possible source characteristics. It also has the advantage of naturally taking into account the trial factor effect encountered in multiple hypothesis testing.

**Primary author:** LABARE, Mathieu (ULB-EXP)

**Presenter:** LABARE, Mathieu (ULB-EXP)