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## **ANTARES measurement of the atmospheric electron neutrino flux**

In this contribution the first measurement of the atmospheric flux of electron neutrinos in the energy range between 50 GeV and 100 TeV made with the ANTARES neutrino telescope is presented. This analysis exploits the large data sample collected in more than 10 years of data acquisition and the development of a new event selection strategy.

Using a Boosted Decision Tree, which combines observables computed with different reconstruction algorithms, it is possible to reject completely the background of atmospheric muons and, at the same time, preserve a statistically significant neutrino sample to be used in the unfolding procedure.

### **Mini-abstract**

First measurement of the atmospheric flux of electron neutrinos with the ANTARES neutrino telescope.

### **Experiment/Collaboration**

ANTARES Collaboration

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