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Event reconstruction in the ANTARES experiment[1] MAXIMILIEN MELISSAS, Centre de Physique des Particules de Marseille, FR, VINCENZO FLAMINIO, Physics Dept., University of Pisa and INFN-Pisa, Italy, ANTARES COLLABORATION — The ANTARES neutrino telescope is under construction at a depth of 2500 m in the Mediterranean sea, about 40 km off the cost of Toulon, France. It aims at the detection of very high energy neutrinos of cosmic origin, that are thought to be produced in highly energetic astrophysical processes The detector consists of 12 lines, each 450 m in height, each housing 75 photomultipliers arranged in triplets and looking dowards, at an angle of 45 degrees to the vertical. The spacing between nearby triplets is 14.5 m; nearby lines are separated by about 60 m. The first lines have been installed and connected to the sea-shore laboratory and a large amount of data have been collected. We plan to discuss the reconstruction of high energy muons generated in neutrino interactions, as well as that of atmospheric muons. Preliminary results on the angular distributions of these muons will also be shown.

[1]On behalf of the ANTARES Collaboration.

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