Introduction

Genoa KM3NeT Simulation worshop

2015





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The schedule

<u>Monday</u>

- 10:00 Introduction
- 10:15 12:00 Physics, experiments and applications
 - Generalities
 - Results and application fields (water properties, the 40K...)
- 14:00 15:30 The physics of the PMT.
 - The principal challenge in PMT simulation will be presented
 - The physics of the PMT (photocathode, collection efficiency etc.)
 - The solutions used in KM3RTSim
- 15:30 17:30 A complete overview of the simulation and the "how to use it" will be developed.
- 17:30 18:00 An application of the simulation out of the Astrophysics: Detector of neutron for civil transportation control

<u>Tuesday</u>

- Morning General Discussion about the simulation
 - The roadmap
 - The studied physics
- Afternoon Application workshop: Demonstration and application to various cases (classical, and proposed while the discussion). Bring your laptop!





KM3NeT

What to expect from this workshop

- To understand the "low level" optical modules simulation
 - The efficiency an the local properties of the detector but
 - No full detector reconstruction
 - No muon reconstruction
- To understand how it works and to be able to contribute to it
 - New applications
 - Improvements to the simulato







The lunch

• Number of persons to go to the Fuorigrotta? (reservations)



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