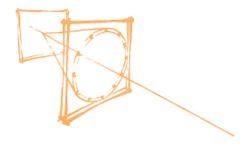
## 7th International Workshop on Ring Imaging Cherenkov detectors (RICH 2010)



ID de Contribution: 57 Type: Poster

## Tools and Methods for simulation and evaluation of Very Large Volume Cherenkov Neutrino detectors

jeudi 6 mai 2010 10:00 (1 minute)

We report on the structure and performance of the HOU Reconstruction & Simulation (HOURS) software package developed in order to study in detail the response of very large volume ( $km^3$ -scale) Cherenkov neutrino detectors. HOURS comprises a realistic simulation package of the

detector response, including an accurate description of all the

relevant physical processes, as well as several analysis strategies for event reconstruction.

We also present results concerning the performance of

several detector configurations of a Very Large Volume Cherenkov Neutrino detector.

Our results refer to the evaluation of the detector sensitivity in observing cosmic neutrino fluxes from point-like and diffuse neutrino sources.

## Please indicate "poster" or "plenary" session. Final decision will be made by session coordinators.

plenary

Auteur principal: Dr TSIRIGOTIS, Apostolos (Hellenic Open University)

**Co-auteurs:** Dr LEISOS, Antonios (Hellenic Open University); Prof. TZAMARIAS, Spyros (Hellenic Open University)

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Orateurs: Dr LEISOS, Antonios (Hellenic Open University); Dr TSIRIGOTIS, Apostolos (Hellenic Open Univer-

sity)

Classification de Session: Poster Session 2 (Summary)

Classification de thématique: Pattern recognition and data analysis