

Session Program

Oct 12 - 14, 2011



VLVnT11 - Very Large Volume Neutrino Telescope Workshop (2011)

Parallel Session 1

Physics Lecture Hall, HG
Hörsaalgebäude - Staudtstraße 5 - 91058 Erlangen - Germany

Wed, October 12

2:00 PM

Parallel Session 1: Physics, Reconstruction and Software

Session | **Location:** Physics Lecture Hall, HE, Hörsaalgebäude - Staudtstraße 5 - 91058 Erlangen - Germany |
Conveners: Claudio Kopper, Alexander Kappes, Timo Thomas Karg

14:00 - 14:20 Muon Energy Reconstruction in the ANTARES Detector

Speaker
Jutta Schnabel

14:20 - 14:40 Methods for muon energy loss reconstruction in IceCube

Speaker
David Boersma

14:40 - 15:00

Coincident searches for high energy neutrinos and gravitational waves with the ANTARES and LIGO/VIRGO detectors

Speaker
boutayeb bouhou

15:00 - 15:20

A feasibility study for the detection of Super Nova explosions with an Underwater Neutrino Telescope

Speaker
Dr Anthony Leisos

15:20 - 15:40

Search for Ultra-High-Energy neutrinos at the Pierre Auger Observatory

Speaker
Javier Gonzalez

15:40 - 16:00 Cosmogenic neutrinos in KM3NeT

Speaker
Rezo Shanidze

4:00 PM

2:00 PM

Parallel Session 1: Physics, Reconstruction and Software

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Conveners: Timo Thomas Karg, Alexander Kappes, Claudio Kopper

14:00 - 14:20 Anisotropy of TeV cosmic rays in IceCube and IceTop

Speaker
Marcos Santander

14:20 - 14:40 Influence of Cosmic Ray Composition

Speaker
Patrick Berghaus

14:40 - 15:00

Search for neutrino emission in gamma-ray flaring blazars with the ANTARES telescope

Speaker
Agustín Sánchez Losa

15:00 - 15:20 **Measurement of Neutrino Oscillations with the ANTARES detector**

Speaker
Juergen Brunner

15:20 - 15:40

Indirect Search for Dark Matter with the ANTARES Neutrino Telescope

Speaker
Juan De Dios Zornoza Gomez

15:40 - 16:00

Search for magnetic monopoles and nuclearites with the ANTARES experiment

Speaker
Ms Gabriela Emilia Pavalas

4:00 PM

4:30 PM

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16:30 - 16:50

Time integrated search for point sources of cosmic neutrinos with the ANTARES telescope

Speaker
Mr Claudio Bogazzi

16:50 - 17:10 **Point Source Searches by IceCube: Recent Results and Progress**

Speakers
Chad Finley, Chad Finley

17:10 - 17:30 **Evaluation of triggering schemes for KM3NeT**

Speaker
Mr Thomas Seitz

17:30 - 17:50

KM3NeT sensitivity and discovery potential for galactic point-like sources

Speaker
Dr piera sapienza

17:50 - 18:10

Reconstruction efficiency and discovery potential of a Mediterranean neutrino telescope: A simulation study using the Hellenic Open University Simulation & Reconstruction (HOURS) package

Speaker
Dr Apostolos Tsirigotis

18:10 - 18:30

The KM3NeT high energy neutrino telescope and Fermi bubbles: some predictions

Speaker
Dr Rosa Coniglione

7:30 PM

Thu, October 13

10:00 AM

Parallel Session 1: Physics, Reconstruction and Software

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Conveners: Alexander Kappes, Timo Thomas Karg, Claudio Kopper

10:00 - 10:30 Common Simulation Tools for Large Volume Neutrino Detectors

Speaker
Annarita Margiotta

10:30 - 10:50 Simulation Chain for Acoustic UHE Neutrino Detectors

Speaker
Max Neff

10:50 - 11:10 Neutrino-induced showers in the ANTARES Deep-Sea Telescope

Speaker
Qader Dorosti

11:10 - 11:30

Reconstruction and identification of neutrino-induced particle showers in IceCube

Speaker
Eike Middell

11:30 - 11:50

A Kalman Filter approach for track reconstruction in a neutrino telescope

Speaker
Dr Gianfranca De Rosa

11:50 - 12:10

A reconstruction method for neutrino induced muon tracks taking into account the apriori knowledge of the neutrino source

Speaker
Dr Apostolos Tsirigotis

12:10 - 12:30

Evaluation of the discovery potential of an underwater Mediterranean neutrino telescope taking into account the estimated directional resolution and energy of the reconstructed track

Speaker
Prof. Spyros Tzamarias

12:30 PM