

Title: Astroparticle Physics

Lecturer: Dr PALANQUE-DELABROUILLE, N

Date and Times: 4th August at 11:15
5th August at 09:15
5th August at 10:15.

Summary of the proposed talk

The lectures cover recent topics in astroparticle physics. The first part will consist of a general overview of the field. The next two lectures will cover two specific aspects of astroparticle physics and present the ongoing experiments dedicated to their study :

- high energy astrophysics, large scale cosmic ray detectors, neutrino detectors
- dark matter and dark energy, microlensing experiments, supernovae experiments.

Prerequisite knowledge and references

Basic knowledge of physics and astrophysics

Dr Nathalie Palanque-Delabrouille

Since 1997 - Physicist at CEA Saclay, department of Particle Physics
(1994-2003) : baryonic dark matter EROS experiment
(since 1998) : neutrino astrophysics ANTARES experiment
(since 2003) : cosmology and dark energy SNLS experiment

1997 - PhD from University of Chicago and Doctorat Université Paris 7, with
Congratulations of the Jury, Award "Jeunes Chercheurs" Saint GOBAIN of the French
Society of Physics

1994 - Master of Science, The University of Chicago, USA Award "Excellence in Teaching
of Undergraduates", University of Chicago, USA

1992 - Engineer diploma, Télécom PARIS, France DEA of electronics, Université Paris 6,
France, with honors