

2nd ET GENERAL WORKSHOP

Wednesday, October 14, 2009 - Friday, October 16, 2009

Ettore Majorana Foundation

Scientific Program

The second annual ET workshop will be composed by four main sessions, related to the scientific working groups realizing the ET scientific team; WP1 (site and infrastructures of a third generation gravitational wave observatory), WP2 (suspensions and thermal noises), WP3 (topologies and geometries) and WP4 (Astrophysics).

The aim of this central ET meeting is to define the baseline options of the ET conceptual design, to assess the science goals of a 3rd generation gravitational wave detector, to form the core of the team that in the remaining months of activity will effectively realize the design.

A round table will be organized with the scientists coming from US and Japan to discuss the perspectives of the 3rd generation of GW observatories, its relation with the advanced detectors in US and Europe and its synergy with the space GW detectors.

Wednesday, 14 October 2009

Afternoon:

Opening Session

WP4: Astrophysics Issues

Thursday, 15 October 2009

Morning:

WP2: Suspensions and thermal noise

Round table

Afternoon:

WP3: Topology, Geometry, Optics

Social Dinner

Friday, 16 October 2009

Morning:

WP1: Site and Infrastructures

Closing session

WP1: Site and Infrastructures

Studies for the identification of the site requirements and infrastructures design

WP2: Suspensions and Thermal noises

Studies to reduce the seismic and thermal noises in 3rd generation GW observatories

WP3: Topology, Geometry and Optics

Topologies studies, possible geometries and optical requirements

WP4: Astrophysics

Astrophysics, science case, potentialities of a 3rd generation GW observatory