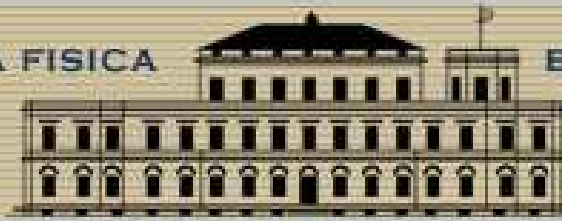


MUSEO STORICO DELLA FISICA



E CENTRO STUDI E RICERCHE

*Enrico Fermi*

# Centro Fermi outreach activities

Dr. Barbara Gallavotti

Erice, November 12 2007

# Centro Fermi mission

**Centro Fermi main goal is creating what Enrico Fermi would have liked to realize in Italy: a research centre devoted to frontier research.**

# What is special in Centro Fermi

**As a research institute Centro Fermi is devoted at multidisciplinary studies. Its goal is not only to foster frontier science, but also to integrate the knowledge generated in different fields and to promote discussion among top scientists with different specializations.**

# Research activities

**Centro Fermi is carrying on reaserch activities in the most advanced fields of modern Physics, paying a special attention to multidisciplinary projects. Centro Fermi is also deeply committed in discovering “new talents” and in offering them grants to be used to work in Italy.**

# Outreach activities

**Another Centro Fermi main goal is promoting scientific culture. This is done through exhibitions, conferences and experiments.**

# The heritage

**Centro Fermi is taking care of the renewing of the building in via Panisperna, to be transformed in an historical museum.**

# Centro Fermi outreach activities

- **EEE project**
- **Exhibition about Enrico Fermi**
- **Science Cafè**
- **Press Office**

# EEE (Extreme Energy Events)

The main task of the project is to understand where, when and how the primary (protons or nuclei) cosmic rays form, as being the original ashes of the Big Bang and travel billions of years starting from the most remote regions of the Universe, much further than the Moon, the Sun and the stars visible by naked eye. The EEE Project will be able to bring the Science to the youths' hearts through a direct cultural incentive, naturally born when the students feel of being main actors in the construction of a scientific instrument and contributors in the data analysis at the frontiers of the scientific thought.

# EEE projects in details

The EEE Project has a modular structure and the plan will realize in many High Schools all over Italy (Licei and Technical Schools) a modulus of experimental apparatus, i.e. a "telescope" made of MRPC detectors (Multigap Resistive Plate Chamber), devoted to the observation and the measures of cosmic muons. In each School, students will participate to assembling and complete set up of the telescope. In this way, they will realize how to transform basic components of common use to a very high precision instrument. The data obtained by each School will be an original contribution for the studies regarding Cosmic Rays belonging to the EEE class.

# EEE and ALICE

EEE project is based on a very advanced detector unit: the multigap resistive plate chamber (MRPC) which has been developed for the ALICE experiment at LHC at CERN

# Pictures



Erice, November 12 2007

# Exhibition about Enrico Fermi

- To be inaugurated on November 29
- Aimed at presenting to the large public the enormous impact of Enrico Fermi discoveries and their impact on the progress of knowledge

# Science café about the science of complexity

## Why a Science Café?

It is an informal occasion to meet scientists and participate in a conversation about current science topics.

## Already presented at

- "Apriamo la mente" (Science Festival of Regione Lazio)
- Perugia Science Festival
- Genova, International Statphys Conference 2007

## Next date

- Outreach activity at ESOF 2008

# Science café details

## Participants

- Three researchers and one actress

## Public

- The public can listen or join in the conversation by asking questions or offering comments.

## Not only Science

- The scientific topics are alternated with short readings by an actress.
- The readings (from “Cosmicomics” by Calvino and “Ficciones” by Borges) recall or anticipate some of the subject treated in the scientific part.

# Scientific Topics

Supported by images on a screen, the researchers deal with three different subjects studied using the methods typical of Physics.

## Language

- How does a language originate and develop?

## Internet

- The phenomenon of the collaborative tagging: the web users are no more mere consumers, but they are turning into architects of the information.

## Cosmology

- The discovery of the fractal structure of the universe and the problem of the distribution of the galaxies.

# Enrico Fermi heritage

"Ignorance is never better than knowledge"

*Enrico Fermi*



Erice, November 12 2007