

# ITALY

## Grants for the Third Year (2007-2008)

### FIRST CALL

## UNIVERSITÀ DEGLI STUDI DI PADOVA "IL BO"

### Local Committee:

**Dr. Gianni Zumerle (Chair)**

**Dr. Ugo Gasparini**

**Dr. Giuseppe Viesti**

### Europe to Latin America

| Grant     | Type      | Work Program                                                                                                                                         | Months     | Host University<br>Country                                         |
|-----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------|
| <b>1.</b> | <b>RT</b> | Development of GRID tools<br>of general interest for fast and<br>easy deployment of remote<br>grid sites<br><i>Responsible: Bernard<br/>Marechal</i> | <b>0.5</b> | <b>Universidade Federal do Rio<br/>de Janeiro -UFRJ<br/>Brazil</b> |

# UNIVERSITÀ DEGLI STUDI DI ROMA “LA SAPIENZA”

**Local Committee (in common with Università’ degli Studi di Roma “Tor Vergata”):**

**Dr. Maurizio Lusignoli (“La Sapienza”) (Chair)**

**Dr. Anna Di Ciaccio (“Tor Vergata”)**

**Dr. Piergiorgio Picozza (“Tor Vergata”)**

## Europe to Latin America

| Grant     | Type      | Work Program                                                                                                   | Months   | Host Institution<br>Country                                           |
|-----------|-----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------|
| <b>2.</b> | <b>RT</b> | Applications of perturbative QCD<br><i>tutor/responsible: Daniel de Florian</i>                                | <b>1</b> | <b>Universidad de Buenos Aires<br/>Argentina</b>                      |
| <b>3.</b> | <b>RT</b> | Experimental or Theoretical High<br>Energy Physics<br><i>tutor/responsible: Alejandro Szanto de<br/>Toledo</i> | <b>1</b> | <b>Universidade de São Paulo<br/>USP<br/>Brazil</b>                   |
| <b>4.</b> | <b>RT</b> | Researches on Dark Energy and Dark<br>Matter<br><i>tutor/responsible: Axel de la Macorra</i>                   | <b>1</b> | <b>Universida Nacional<br/>Autònoma de Mèxico<br/>UNAM<br/>Mexico</b> |

# UNIVERSITÀ DEGLI STUDI DI ROMA “TOR VERGATA”

**Local Committee (in common with Università degli Studi di Roma “La Sapienza”):**

**Dr. Maurizio Lusignoli (“La Sapienza”) (Chair)**

**Dr. Anna Di Ciaccio (“Tor Vergata”)**

**Dr. Piergiorgio Picozza (“Tor Vergata”)**

## Europe to Latin America

| Grant | Type | Work Program                                                                                                                                                                                       | Months | Host Institution<br>Country                                          |
|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------|
| 1.    | STT  | Analysis of high-energy cosmic ray data. Participation in data taking at the Auger Observatory.<br><i>tutor/responsible: G.Matthiae</i>                                                            | 1      | Universidad Nacional de La Plata, and Auger Observatory<br>Argentina |
| 2.    | STT  | <i>Combined analysis of the surface detector and fluorescence detector of the Auger Observatory. Participation in data taking at the Auger Observatory</i><br><i>tutor/responsible: G.Matthiae</i> | 1      | Universidad Nacional de La Plata, and Auger Observatory<br>Argentina |
| 3.    | STT  | Observatory to Europe. Participation in data taking at the Auger Observatory<br><i>tutor/responsible: G.Matthiae</i>                                                                               | 1      | Universidad Nacional de La Plata, and Auger Observatory<br>Argentina |

# UNIVERSITÀ DEGLI STUDI DI TORINO

## Local Committee:

**Dr. A. Marzari Chiesa (Chair)**

**Dr. P. Giubellino**

**Dr. M. Masera**

## Europe to Latin America

| Grant     | Type       | Work Program                                                                                                           | Months   | Host University<br>Country                          |
|-----------|------------|------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------|
| <b>1.</b> | <b>STT</b> | Development of software for data analysis for the ALICE experiment at the LHC.<br><i>Tutor: Marcelo Gameiro Munhoz</i> | <b>3</b> | <b>Universidade de Sao Paulo<br/>USP<br/>Brazil</b> |

# LABORATORI NAZIONALI DELL' INFN AL GRAN SASSO

## Local Committee:

**Prof. Eugenio Coccia (Chair)**  
**Dr. Ornella Palamara**  
**Dr. Aurelio Grillo**

## Europe to Latin America

| Grant | Type | Work Program                                                                                                                                                                                                                                 | Months | Host Institution<br>Country                   |
|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------|
| 1.    | STT  | Search for anisotropies in Auger.<br>In particular search for autocorrelation patterns using SD and hybrid data. Search for correlations with possible sources and signatures of the GZK effect<br><br><i>tutor/responsible: Teresa Dova</i> | 2      | Universidad Nacional de La Plata<br>Argentina |
| 2.    | RT   | Simulation and reconstruction of hybrid events in Auger.<br>Study of shower parameters sensitive to the primary particle identity.<br><br><i>tutor/responsible: Teresa Dova</i>                                                              | 2      | Universidad Nacional de La Plata<br>Argentina |
| 3.    | STT  | Simulation and reconstruction of hybrid events of energy below $10^{18.5}$ eV in Auger.<br><br><i>tutor/responsible: Teresa Dova</i>                                                                                                         | 2      | Universidad Nacional de La Plata<br>Argentina |