

# CHILE

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

### FIRST CALL

## PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE

### Local Committee:

**Prof. Marco Aurelio Díaz (Chair)**  
**Dean María Cristina Depassier**  
**Prof. Rafael Benguria**

### Alternating Members:

Prof. Marcelo Loewe

### Latin America to Europe

| Grant | Type | Work Program                                                                                                                                                                                                                                                          | Months | Host Institution<br>Country |
|-------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------|
| 1.    | AT   | Graduate student to work within the Trigger and Data Acquisition group of the ATLAS Collaboration, and on simulation and data analysis, in connection with Higgs decay into two photons.<br><i>tutor/responsible: Dr. Nick Ellis</i>                                  | 6      | CERN<br>Switzerland         |
| 2.    | AT   | Graduate student to work within the Trigger and Data Acquisition Group of the ATLAS Collaboration, and on simulation and data analysis, in connection with leptonic signals of supersymmetric models.<br><i>tutor/responsible: Dr. Nick Ellis</i>                     | 6      | CERN<br>Switzerland         |
| 3.    | STT  | Graduate student to work within the Heavy Ion Group of the ATLAS collaboration, on simulation tools and data analysis.<br><i>tutor/responsible: Dr. Laurent Rosselet</i>                                                                                              | 3      | CERN<br>Switzerland         |
| 4.    | RT   | Researcher with PhD, to work on phenomenological studies of Higgs bosons and supersymmetric models, and the application of simulation tools for the ATLAS Trigger on the signal analysis for these models.<br><i>tutor/responsible: Dr. Nick Ellis/Dr. John Ellis</i> | 0.5    | CERN<br>Switzerland         |

**UNIVERSIDAD TÉCNICA FEDERICO SANTA MARIA**  
**Valparaíso, Chile**

**Local Committee:**

**Ivan Schmidt (Chair)**  
**Claudio Dib**  
**Luis Salinas**

**Alternating Members:**

Carlos Contreras

**Latin America to Europe**

| Grant | Type        | Work Program                                                                                                                                                                                           | Months | Host University<br>Country |
|-------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|
| 1.    | STT         | ATLAS EXPERIMENT: electronic Postgraduate student, to work in the CERN group for analysis of the Electromagnetic Compatibility of Power Distribution Systems for ATLAS.<br><i>Contact : Nick Ellis</i> | 2      | CERN<br>Switzerland        |
| 2.    | STT         | Postgraduate student, to work in the CERN group for the development of data analysis communication software based on GRID technology.<br><i>Tutor: Gilbert Poulard</i><br><i>Contact Pere Mato</i>     | 3      | CERN<br>Switzerland        |
| 3.    | AT          | Postgraduate student in Physic, to work in CERN Theory Group. Phenomenology of the Standard Model and its High Energy extensions.<br><i>Contact: Luis Alvarez Gaume'</i>                               | 7      | CERN<br>Switzerland        |
| 4.    | RT          | Post doctoral candidate: to work in CERN Theory Group.<br><i>Contact: Luis Alvarez Gaume'</i>                                                                                                          | 2      | CERN<br>Switzerland        |
| 5.    | RT          | <i>ATLAS:</i> Phenomenological study of the Standard Model and Beyond, application of ATLAS simulation tools, Grid computing, electronic and electrical engineering<br><i>Contact:</i> Nick Ellis      | 2      | CERN<br>Switzerland        |
| 6.    | RT          | <i>ATLAS:</i> Phenomenological study of the Standard Model and Beyond, application of ATLAS simulation tools, Grid computing, electronic and electrical engineering<br><i>Contact: Nick Ellis</i>      | 2      | CERN<br>Switzerland        |
| 7.    | RT<br>(HST) | <b>HELEN</b> offers a grant to participate In the CERN High School Teaching Program.<br><i>Contact: Mick Storr</i>                                                                                     | 1      | CERN<br>Switzerland        |