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<th>Course 192</th>
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<td>GRID AND CLOUD COMPUTING – CONCEPTS AND PRACTICAL APPLICATIONS</td>
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<td>25 – 30 July</td>
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**Topics:**
- WLCG Grid past, present and future
- Clouds in the Biosciences
- Scientific clouds
- Global networking
- Grid and Cloud architecture
- Cloud middleware
- Big Data: challenges and perspectives
- Data preservation
- Grid and Cloud Monitoring

**Lecturers and Seminar Speakers:**
- **A. Barczak** – California Institute of Technology, Pasadena, CA (USA)
- **I. Bihl** – IT Department, CERN, Geneva (Switzerland)
- **V. J. Baxt** – LPC, Campus des Cézeaux, Aubière (France)
- **D. Brugliera** – IT Department, CERN, Geneva (Switzerland)
- **I. Lebrun** – IT Department, CERN, Geneva (Switzerland), California Institute of Technology, Pasadena, CA (USA)
- **M. Leyte** – Computer Sciences Department, University of Wisconsin, Madison, WI (USA)
- **S. Marchetti** – GCS: Grid Computing Competence Center, University of Zurich (Switzerland)
- **G. Mason** – INFN-CNAF, Bologna (Italy)
- **H. Newman** – California Institute of Technology, Pasadena, CA (USA)
- **J. Nuss** – IT Department, CERN, Geneva (Switzerland)

**Directors of the Course:**
- **F. Carnesin** – PH Department, CERN, Geneva (Switzerland)
- **L. Brev** – PH Department, CERN, Geneva (Switzerland)

**Scientific Secretary:**
- **A. Grigoras** – PH Department, CERN, Geneva (Switzerland)

**Deadline for application:**
5 May 2014

Correspondence and application forms should be sent to:

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**Arrival day:**
Thursday, 24 July 2014

**Opening of the Course:**
Friday, 25 July 2014 - 9.00 a.m.

**Closing of the Course:**
Wednesday, 30 July 2014 - 12.30 p.m.

**Participation fee:**
€ 900,00 (for attendance, board, lodging and Proceedings)