



The Abdus Salam  
International Centre for Theoretical Physics



## Summer School on Particle Physics

Cosponsor(s): The Italian Institute for Nuclear Research (INFN)  
Organizer(s): Organizing Committee: C. Aulakh, S. Bertolini, W. Marciano, G. Senjanovic  
Scientific Secretary: Miha NEMEVSEK, Yue ZHANG  
Trieste - Italy, 06 - 17 June 2011

**Venue: Leonardo da Vinci Building Main Lecture Hall**

### Programme

**Monday, 6 June 2011** (Room:Leonardo da Vinci Building Main Lecture Hall)

- 08:30 - 10:30**      **REGISTRATION AND ADMINISTRATIVE FORMALITIES**
- 10:30 - 11:00**      **Goran SENJANOVIC / ICTP**  
**OPENING**
- 11:15 - 12:30**      **Sally DAWSON / Brookhaven National Laboratory, USA**  
**Higgs and Electroweak Symmetry Breaking - I**
- 12:30 - 15:30**      --- Lunch Break ---
- 15:30 - 16:45**      **Michael DINE / University of California at Santa Cruz, USA**  
**Supersymmetry at LHC - I**
- 17:15 - 18:30**      **Cecilia TARANTINO / University of Rome III and INFN**  
**Flavor Physics - I**

**Tuesday, 7 June 2011** (Room:Leonardo da Vinci Building Main Lecture Hall)

- 09:30 - 10:45**      **Sally DAWSON**  
**Higgs and Electroweak Symmetry Breaking - II**

- 11:15 - 12:30**     **Michael DINE**  
**Supersymmetry at LHC - II**
- 12:30 - 15:30**     --- Lunch Break ---
- 15:30 - 16:45**     **Cecilia TARANTINO**  
**Flavor Physics - II**
- 17:15 - 18:30**     **Neal WEINER / *New York University, USA***  
**Astroparticle Physics - I**

**Wednesday, 8 June 2011 (Room:Leonardo da Vinci Building Main Lecture Hall)**

- 09:30 - 10:45**     **Sally DAWSON**  
**Higgs and Electroweak Symmetry Breaking - III**
- 11:15 - 12:30**     **Discussion Session**
- 12:30 - 15:30**     --- Lunch Break ---
- 15:30 - 16:45**     **Michael DINE**  
**Supersymmetry at LHC - III**
- 17:15 - 18:30**     **Neal WEINER**  
**Astroparticle Physics - II**

**Thursday, 9 June 2011 (Room:Leonardo da Vinci Building Main Lecture Hall)**

- 09:30 - 10:45**     **Sally DAWSON**  
**Higgs and Electroweak Symmetry Breaking - IV**
- 11:15 - 12:30**     **Michael DINE**  
**Supersymmetry at LHC - IV**
- 12:30 - 15:30**     --- Lunch Break ---
- 15:30 - 16:45**     **Neal WEINER**  
**Astroparticle Physics - III**
- 17:15 - 18:30**     **Cecilia TARANTINO**  
**Flavor Physics - III**

**Friday, 10 June 2011 (Room:Leonardo da Vinci Building Main Lecture Hall)**

- 09:30 - 10:45**     **Cecilia TARANTINO**  
**Flavor Physics - IV**
- 11:15 - 12:30**     **Discussion Session**
- 12:30 - 15:30**     --- Lunch Break ---

- 15:30 - 16:45**      **Neal WEINER**  
Astroparticle Physics - IV
- 17:15 - 18:30**      **William MARCIANO**  
Precision QED and new physics - SPECIAL LECTURE
- 19:00 - 21:00**      (Room: Leonardo da Vinci Building Terrace)  
--- Reception ---

**Saturday, 11 June 2011** (Room:Leonardo da Vinci Building Main Lecture Hall) (**Saturday**)

- 09:30 - 10:45**      **Gia DVALI / New York University, USA**  
UV Completions at the TeV Scale - I
- 11:15 - 12:30**      **Borut BAJC / Institute 'Jozef Stefan', Ljubljana**  
Grand Unification and Proton Decay - I

**Monday, 13 June 2011** (Room:Leonardo da Vinci Building Main Lecture Hall)

- 09:30 - 10:45**      **Tim TAIT / University of California, Irvine, USA**  
Collider Physics - I
- 11:15 - 12:30**      **Borut BAJC**  
Grand Unification and Proton Decay - II
- 12:30 - 15:30**      --- Lunch Break ---
- 15:30 - 16:45**      **William MARCIANO / Brookhaven National Laboratory, USA**  
Neutrino Physics - I
- 17:15 - 18:30**      **Gia DVALI**  
UV Completions at the TeV Scale - II

**Tuesday, 14 June 2011** (Room:Leonardo da Vinci Building Main Lecture Hall)

- 09:30 - 10:45**      **Gia DVALI**  
UV Completions at the TeV Scale - III
- 11:15 - 12:30**      **Discussion Session**
- 12:30 - 15:30**      --- Lunch Break ---
- 15:30 - 16:45**      **Gia DVALI**  
UV Completions at the TeV Scale - IV
- 17:15 - 18:30**      **Fabrizio NESTI / University of L'Aquila**  
SPECIAL LECTURE - Title to be announced

**Wednesday, 15 June 2011** (Room:Leonardo da Vinci Building Main Lecture Hall)

**09:30 - 10:45**      **Tim TAIT**  
**Collider Physics - II**

**11:15 - 12:30**      **Borut BAJC**  
**Grand Unification and Proton Decay - III**

**12:30 - 15:30**      --- Lunch Break ---

**15:30 - 16:45**      **William MARCIANO**  
**Neutrino Physics - II**

**17:15 - 18:30**      **Fabrizio NESTI**  
**SPECIAL LECTURE - Title to be announced**

**Thursday, 16 June 2011** (Room:Leonardo da Vinci Building Main Lecture Hall)

**09:30 - 10:45**      **William MARCIANO**  
**Neutrino Physics - III**

**11:15 - 12:30**      **Discussion Session**

**12:30 - 15:30**      --- Lunch Break ---

**15:30 - 16:45**      **Tim TAIT**  
**Collider Physics - III**

**17:15 - 18:30**      **Borut BAJC**  
**Grand Unification and Proton Decay - IV**

**19:30 - 23:00**      (Room: Leonardo da Vinci Building Terrace)  
--- Special dinner with live Latin-American music ---

**Friday, 17 June 2011** (Room:Leonardo da Vinci Building Main Lecture Hall)

**09:30 - 10:45**      **Tim TAIT**  
**Collider Physics - IV**

**11:15 - 12:30**      **William MARCIANO**  
**Neutrino Physics - IV**