

# PROGRAMME

Timetable - Talks - Info



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## WELCOME IN GRENOBLE

The EPS-HEP2011 Local Organizing Committee is very pleased to welcome you in Grenoble, a city with both a long history and a rich present. Grenoble is located in the Rhône-Alpes region of France. This region is the home of several major research centres in fundamental and applied scientific research as well as a large and active high-energy physics community.

EPS-HEP is one of the major international conferences that review the state of our knowledge of the fundamental constituents of matter and their interactions. This year, more than 800 physicists from all continents will gather to present and discuss their latest findings. For a full week, results obtained in terrestrial laboratories or through observations of the Universe will be confronted with the most recent theoretical developments. Advances in particle detection and in acceleration techniques will also be presented.

EPS-HEP 2011 will be the first major world conference after extensive operation of the CERN Large Hadron Collider (LHC) at an energy of 7 TeV, and one of the last before the final shutdown of the Tevatron collider. Reports of new and potentially surprising observations made at other international laboratories or from programs in astroparticle physics and cosmology are also expected. With eleven parallel sessions and an extended poster display, several hundred oral and written contributions are scheduled. The conference will also host the traditional joint ECFA-EPS open session. This year the session will take place on July 23rd and will serve as the kick-off meeting for the update of the European Strategy in High Energy Physics.

We wish to all of you a very pleasant stay in Grenoble and a very fruitful conference.

## THURSDAY, 21<sup>ST</sup> JULY

Final room assignments will be displayed on screens in the lobby and on the conference web site. Detailed programme on Indico:

<http://indico.in2p3.fr/conferenceTimeTable.py?confId=5116#20110721>.

09:00	<b>Ultrarelativistic Heavy Ions</b>	<b>Astroparticle Physics</b>	<b>Flavour Physics and Fundamental Symmetries</b>	<b>Higgs and New Physics</b>	<b>QCD</b>	<b>Top and Electroweak Physics</b>
10:00	<i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<i>Berlioz, Alpes Congrès - AlpeXpo</i>	<i>Oisans, Alpes Congrès - AlpeXpo</i>	<i>Dauphine, Alpes Congrès - AlpeXpo</i>	<i>Bayard, Alpes Congrès - AlpeXpo</i>	<i>Stendhal, Alpes Congrès - AlpeXpo</i>
<b>Coffee</b>						
<i>Lobby, Alpes Congrès - AlpeXpo</i>						10:30 - 11:00
11:00	<b>Ultrarelativistic Heavy Ions</b>	<b>Astroparticle Physics</b>	<b>Flavour Physics and Fundamental Symmetries</b>	<b>Higgs and New Physics</b>	<b>QCD</b>	<b>Top and Electroweak Physics</b>
12:00	<i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<i>Berlioz, Alpes Congrès - AlpeXpo</i>	<i>Oisans, Alpes Congrès - AlpeXpo</i>	<i>Dauphine, Alpes Congrès - AlpeXpo</i>	<i>Bayard, Alpes Congrès - AlpeXpo</i>	<i>Stendhal, Alpes Congrès - AlpeXpo</i>
13:00	<b>Lunch</b>					
14:00	<i>Les Ecrins, Alpes Congrès - AlpeXpo</i>					
15:00	<b>Ultrarelativistic Heavy Ions</b>	<b>Astroparticle Physics</b>	<b>Flavour Physics and Fundamental Symmetries</b>	<b>Higgs and New Physics</b>	<b>QCD</b>	<b>Top and Electroweak Physics</b>
16:00	<i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<i>Berlioz, Alpes Congrès - AlpeXpo</i>	<i>Oisans, Alpes Congrès - AlpeXpo</i>	<i>Dauphine, Alpes Congrès - AlpeXpo</i>	<i>Bayard, Alpes Congrès - AlpeXpo</i>	<i>Stendhal, Alpes Congrès - AlpeXpo</i>
<b>Tea</b>						
<i>Lobby, Alpes Congrès - AlpeXpo</i>						16:00 - 16:30
17:00	<b>Ultrarelativistic Heavy Ions</b>	<b>Astroparticle Physics</b>	<b>Flavour Physics and Fundamental Symmetries</b>	<b>Higgs and New Physics</b>	<b>QCD</b>	<b>Top and Electroweak Physics</b>
18:00	<i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<i>Berlioz, Alpes Congrès - AlpeXpo</i>	<i>Oisans, Universe</i>	<i>Dauphine, Alpes Congrès - AlpeXpo</i>	<i>Bayard, Alpes Congrès - AlpeXpo</i>	<i>Stendhal, Alpes Congrès - AlpeXpo</i>



## FRIDAY, 22<sup>ST</sup> JULY

Final room assignments will be displayed on screens in the lobby and on the conference web site. Detailed programme on Indico:

<http://indico.in2p3.fr/conferenceTimeTable.py?confId=5116#20110721>.

09:00	<b>Cosmology and Gravity</b>	<b>Detector R &amp; D and Data Handling</b>	<b>Flavour Physics and Fundamental Symmetries</b>	<b>Higgs and New Physics</b>	<b>QCD</b>	<b>Top and Electroweak Physics</b>
10:00	<i>Berlioz, Alpes Congrès - AlpeXpo</i>	<i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<i>Oisans, Alpes Congrès - AlpeXpo</i>	<i>Dauphine, Alpes Congrès - AlpeXpo</i>	<i>Bayard, Alpes Congrès - AlpeXpo</i>	<i>Stendhal, Alpes Congrès - AlpeXpo</i>
<b>Coffee</b>						
<i>Lobby, Alpes Congrès - AlpeXpo</i>						
11:00	<b>Cosmology and Gravity</b>	<b>Detector R &amp; D and Data Handling</b>	<b>Flavour Physics and Fundamental Symmetries</b>	<b>Higgs and New Physics</b>	<b>QCD</b>	<b>Top and Electroweak Physics</b>
12:00	<i>Berlioz, Alpes Congrès - AlpeXpo</i>	<i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<i>Oisans, Alpes Congrès - AlpeXpo</i>	<i>Dauphine, Alpes Congrès - AlpeXpo</i>	<i>Bayard, Alpes Congrès - AlpeXpo</i>	<i>Stendhal, Alpes Congrès - AlpeXpo</i>
13:00	<b>Lunch</b>					
14:00	<i>les Ecrins, Alpes Congrès - AlpeXpo</i>					
15:00	<b>Cosmology and Gravity</b>	<b>Detector R &amp; D and Data Handling</b>	<b>Flavour Physics and Fundamental Symmetries</b>	<b>Higgs and New Physics</b>	<b>QCD</b>	<b>Top and Electroweak Physics</b>
16:00	<i>Berlioz, Alpes Congrès - AlpeXpo</i>	<i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<i>les Ecrins 3, Alpes Congrès - AlpeXpo</i>	<i>Dauphine, Alpes Congrès - AlpeXpo</i>	<i>Bayard, Alpes Congrès - AlpeXpo</i>	<i>Stendhal, Alpes Congrès - AlpeXpo</i>
17:00	<b>Cosmology and Gravity</b>	<b>Detector R &amp; D and Data Handling</b>	<b>Flavour Physics and Fundamental Symmetries</b>	<b>Higgs and New Physics</b>	<b>QCD</b>	<b>Top and Electroweak Physics</b>
18:00	<i>Berlioz, Alpes Congrès - AlpeXpo</i>	<i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<i>les Ecrins 3, Alpes Congrès - AlpeXpo</i>	<i>Dauphine, Alpes Congrès - AlpeXpo</i>	<i>Bayard, Alpes Congrès - AlpeXpo</i>	<i>Stendhal, Alpes Congrès - AlpeXpo</i>
19:00						<b>Neutrino Physics</b>
						<i>Oisans, Alpes Congrès - AlpeXpo</i>

## SATURDAY, JULY 23<sup>RD</sup>

09:00	<b>Non Perturbative QFT and String Theory</b> <i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<b>Accelerators</b> <i>Berlioz, Alpes Congrès - AlpeXpo</i>	<b>Neutrino Physics</b> <i>Oisans, Alpes Congrès - AlpeXpo</i>	<b>Higgs and New Physics</b> <i>Dauphine, Alpes Congrès - AlpeXpo</i>	<b>GCD</b> <i>Bayard, Alpes Congrès - AlpeXpo</i>	<b>Top and Electroweak Physics</b> <i>Stendhal, Alpes Congrès - AlpeXpo</i>
<b>Coffee</b> <i>Lobby, Alpes Congrès - AlpeXpo</i> <span style="float: right;">10:30 - 11:00</span>						
11:00	<b>Non Perturbative QFT and String Theory</b> <i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<b>Accelerators</b> <i>Berlioz, Alpes Congrès - AlpeXpo</i>	<b>Neutrino Physics</b> <i>Oisans, Alpes Congrès - AlpeXpo</i>	<b>Higgs and New Physics</b> <i>Dauphine, Alpes Congrès - AlpeXpo</i>	<b>GCD</b> <i>Bayard, Alpes Congrès - AlpeXpo</i>	<b>Top and Electroweak Physics</b> <i>Stendhal, Alpes Congrès - AlpeXpo</i>
12:00	<b>Non Perturbative QFT and String Theory</b> <i>Lesdiguières, Alpes Congrès - AlpeXpo</i>	<b>Accelerators</b> <i>Berlioz, Alpes Congrès - AlpeXpo</i>	<b>Neutrino Physics</b> <i>Oisans, Alpes Congrès - AlpeXpo</i>	<b>Higgs and New Physics</b> <i>Dauphine, Alpes Congrès - AlpeXpo</i>	<b>GCD</b> <i>Bayard, Alpes Congrès - AlpeXpo</i>	<b>Top and Electroweak Physics</b> <i>Stendhal, Alpes Congrès - AlpeXpo</i>

### Joint ECFA-EPS session

The joint ECFA-EPS session will take place in the Dauphine room.

14:30	Welcome and introduction to the joint session	<i>Prof. ZWIRNER, Fabio (Univ. &amp; INFN, Padova)</i>
14:40	Introduction to the European Strategy and its update	<i>STAPNES, Steinar (CERN)</i>
14:55	Regional Flavour Factories followed by ECFA	<i>NAKADA, Tatsuya (EPFL Lausanne)</i>
15:05	Recent developments on the INFN Super B project	<i>GIORGI, Marcello (Univ. di Pisa &amp; INFN Pisa)</i>
15:25	Particle theory: recent progress and medium-term prospects	<i>ALTARELLI, Guido (Roma Tre Univ.)</i>
16:05	High-energy accelerators: recent progress and future directions	<i>MYERS, Steve (CERN)</i>

### Tea - Lobby (16:45-17:15)

17:15	Experiments at the high energy frontier: achievements and future challenges	<i>WELLS, Pippa (CERN)</i>
17:55	Neutrino physics: achievements and future challenges	<i>WARK, David (Rutherford Appleton Laboratory)</i>
18:15	ECFA neutrino report	<i>HALZEN, Francis (Univ. Wisconsin-Madison)</i>
18:40	General discussion and concluding remarks	



## MONDAY, JULY 25<sup>TH</sup>

*Plenary sessions will take place in the Dauphine room.*

- |       |   |   |
|-------|---|---|
| 09:00 | Opening addresses   |   |
| 09:20 | EPS HEPP Prize award and talks by recipients                  |   |
| 09:55 | Cocconi Prize award and talks by recipients                   |   |
| 10:20 | Gribov Medal, Young Physicist Prize and Outreach Prize awards |   |
| 10:30 | Highlight talk: The Cosmic Frontier (EPS Invited Speaker)     | <i>SMOOT, George (LBNL &amp; UC Berkeley &amp; Univ. Paris 7)</i> |

### Coffee - Lobby (11:00-11:30)

- |       |  |   |
|-------|--|---|
| 11:30 | Searches for new physics at the Tevatron | <i>DUPERRIN, Arnaud (CPPM-Marseille)</i>      |
| 12:00 | Highlights and searches in CMS           | <i>TONELLI, Guido (INFN &amp; Univ. Pisa)</i> |
| 12:30 | Highlights and searches in ATLAS         | <i>CHARLTON, Dave (Univ. Birmingham)</i>      |

### Lunch - les Ecrins (13:00-15:00)

- |       |  |  |
|-------|--|--|
| 15:00 | Standard Model theory for collider physics | <i>ZANDERIGHI, Giulia (Oxford Univ.)</i> |
| 15:30 | W and Z physics                            | <i>ALCARAZ, Juan (CIEMAT-Madrid)</i>     |
| 16:00 | Top physics                                | <i>DELIOT, Frederic (CEA - Saclay)</i>   |

### Tea - Lobby (16:30-17:00)

- |       |   |   |
|-------|---|---|
| 17:00 | Scattering amplitudes in Quantum Field Theory | <i>DIXON, Lance (CERN &amp; SLAC)</i>                 |
| 17:30 | Heavy Ions: experiment                        | <i>ANTINORI, Federico (INFN - Padova)</i>             |
| 18:00 | Heavy Ions: theory                            | <i>SALGADO, Carlos (Univ. Santiago de Compostela)</i> |

## TUESDAY, JULY 26<sup>TH</sup>

*Plenary sessions will take place in the Dauphine room.*

- |       |                                 |   |
|-------|---------------------------------|---|
| 09:00 | Direct searches for dark matter | <i>SUZUKI, Yoichiro (Kamioka Obs. &amp; IPMU Tokyo)</i> |
| 09:30 | Dark matter theory              | <i>BERGSTROM, Lars (Univ. Stockholm)</i>                |
| 10:00 | Cosmic Rays                     | <i>TKACHEV, Igor (INR-Moscow)</i>                       |

### **Coffee - Lobby (10:30-11:00)**

- |       |                                       |  |
|-------|---------------------------------------|--|
| 11:00 | Cosmic neutrinos                      | <i>MONTARULI, Teresa (Univ. Wisconsin &amp; INFN &amp; Univ. Bari)</i>     |
| 11:30 | Cosmology and dark energy: theory     | <i>LESGOURGUES, Julien (LAPTh - Annecy &amp; CERN &amp; LPHE Lausanne)</i> |
| 12:00 | Cosmology and dark energy: experiment | <i>KOWALSKI, Marek (Univ. Bonn)</i>  |

### **Lunch - les Ecrins (12:30-14:30)**

- |       |   |  |
|-------|---|--|
| 14:30 | Detector R & D  | <i>HORISBERGER, Roland (PSI-Villingen)</i> |
| 15:00 | LHC: machine status and prospects, including upgrades | <i>MYERS, Steve (CERN)</i>                 |
| 15:30 | Accelerator R & D                                     | <i>RAUBENHEIMER, Tor (SLAC)</i>            |

### **Tea - Lobby (16:00-16:30)**

- |       |  |                                       |
|-------|--|---------------------------------------|
| 16:30 | AdS/CFT and applications                 | <i>BEISERT, Niklas (AEI Potsdam)</i>  |
| 17:00 | Neutrinos: experiments with accelerators | <i>NISHIKAWA, Koichiro (KEK)</i>      |
| 17:30 | Neutrinos: non-accelerator experiments   | <i>SCHOENERT, Stefan (TU München)</i> |





## WEDNESDAY, JULY 27<sup>TH</sup>

*Plenary sessions will take place in the Dauphine room.*

09:00	QCD experiment	<i>VARELAS, Nikos (Univ. Illinois)</i>
09:30	Flavour physics at the LHC	<i>WILKINSON, Guy (Oxford Univ.)</i>
10:00	Flavour physics at the Tevatron	<i>TONELLI, Diego (Fermilab)</i>

### Coffee - Lobby (10:30-11:00)

11:00	Flavour theory	<i>NEUBERT, Matthias (Univ. Mainz)</i>
11:30	Flavour physics at the intensity frontier	<i>KRIZAN, Peter (Ljubljana Univ. &amp; Stefan Inst.)</i>
12:00	Charged lepton flavour and dipole moments	<i>MORI, Toshinori (ICEPP Univ. Tokyo)</i>

### Lunch - les Ecrins (12:30-14:30)

14:30	New theories for the Fermi scale	<i>RYCHKOV, Slava (LPTENS &amp; Univ. Paris-6)</i>
15:00	Higgs searches at the Tevatron	<i>JAMES, Eric (Fermilab)</i>
15:30	Higgs searches at the LHC	<i>MURRAY, William (RAL)</i>

### Tea - Lobby (16:00-16:30)

16:30	An outlook from America	<i>ODDONE, Pier (Fermilab)</i>
16:55	An outlook from Asia	<i>SUZUKI, Atsuko (KEK)</i>
17:20	An outlook from Europe	<i>HEUER, Rolf (CERN)</i>
17:45	An outlook from theory	<i>GROSS, David (KITP Santa Barbara)</i>
18:10	Closing	

## USEFUL INFORMATION

### Work openspaces

Electrical sockets are available at blue points shown on the map. You will find as well between “salle Berlioz” and “salle Lesdiguières” 10 computers connected to the Internet.

To connect your laptop to the internet, use the Alpexpo WIFI. Then start your browser, the identifier is HEP and the password is HEP too.

### Where to find information?

Final room assignments will be displayed on screens in the lobby and on the conference web site (see Indico).

For any other question please ask staff members (white badge necklace). Also read the A to Z guide on the conference website (<http://eps-hep2011.eu/>).

### Lunches

Every day you can order your lunch box between 11:30 to 14:30 in the lobby downstairs. Lunch time restaurants may be found in the Grand Place commercial center well located next to Alpexpo and in downtown Echirolles. Ask the help desk for a list.

### Coffee, tea breaks

Coffee, tea, non-alcoholic beverages and snacks are available from 10:30 to 11:00 and between 16:30 and 18:30 at the coffee break counters.

### Whom to call in case of emergency?

For any problem contact staff members (white badge necklace) or go to the help desk.

Organizer : 0033 (0)6 29 02 44 31.

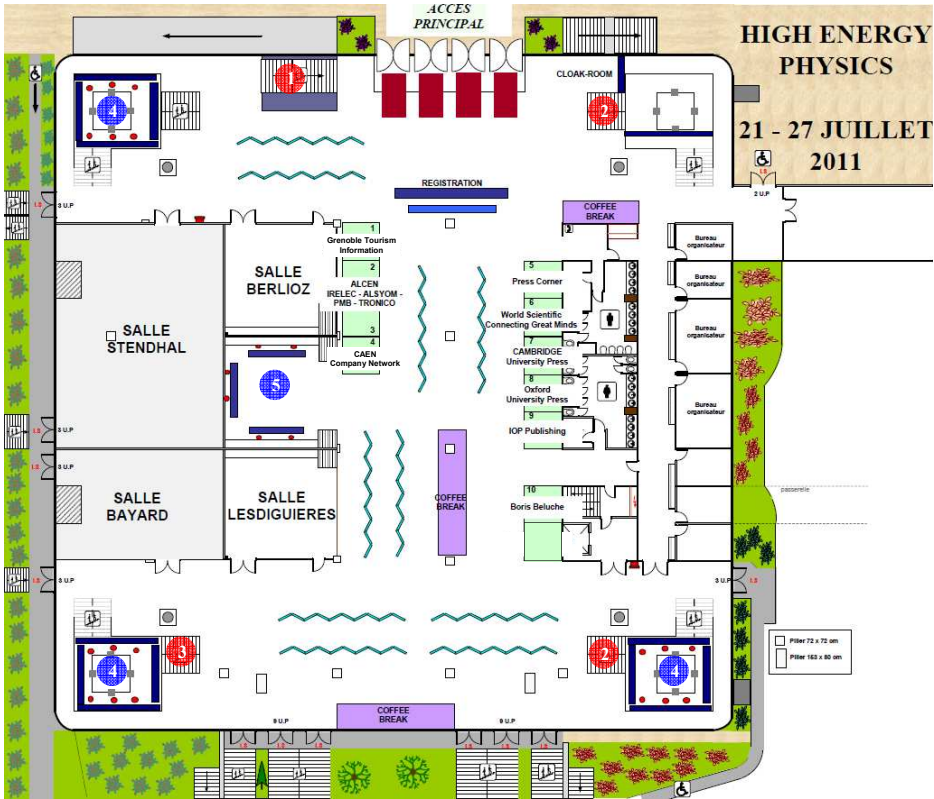
Police: 17

Fire brigade: 18

From a cell phone: 112

## SOCIAL PROGRAMME

Events/Sessions		16:00	18:00	18:30	19:00
19 July 2011	• Concert of Particles : Mazalda				
	• Welcome/Registration				
20 July 2011	• Welcome addresses & reception (wine & cheese)				
	• Night of Particles (general public dance and science show)				
21 July 2011	• City hall reception				
22 July 2011	• Soccer tournament playoffs				
25 July 2011	• Bel Canto Concert				
	• Soccer tournament final				
26 July 2011	• Conference dinner				



- ① Stairs to « Salle les Ecrins 3 » and to the lunch lobby.
- ② Stairs to « Salle Dauphine » and to « Salle Oisans ».
- ③ Stairs to « Salle Oisans ».
- ④ Work openspace and electrical sockets.
- ⑤ Work openspace with fixed computers connected to the Internet and electrical sockets.

19:30	19:45	20:00	20:30	21:00	21:15	21:30	22:00	22:30	23:00	Place
										Paul Mistral Park
										Campus University
										Museum of Grenoble
										Gières Stadium
										Campus University
										Stade des Alpes (Grenoble Stadium)

# SPONSORS & ORGANIZING INSTITUTIONS



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