

Winter Workshop on "Recent QCD Advances at the Large Hadron Collider"

Les Houches, Savoie

14th - 18th Feb. 2011

Organizers:

François Gelis (CEA-Saclay)

Christophe Suires (IPN-Orsay)

David d'Enterria (CERN)

Topics of the workshop

❖ Latest **Quantum Chromodynamics** results at the LHC:

- including **proton-proton (~70%) & Pb-Pb (~30%)**
- grouped in **4 big themes**:

- (1) Mostly **non-perturbative QCD**: inclusive hadron prod., diffraction, ...
- (2) **PDFs & low-x QCD**: global fits, DGLAP/BFKL/CGC, ...
- (3) **perturbative QCD (I)**: jets, high- p_T , direct photons, NNLO ...
- (4) **perturbative QCD (II)**: heavy-quarks & quarkonia

❖ **47** theoretical (23) & experimental (24) **talks**:

EXP: ATLAS (7), CMS (7), ALICE (5), LHCb (4), LHCf (1), TOTEM (cancelled)

TH: MCs: PYTHIA, HERWIG, SHERPA, CASCADE

PDFs: CTEQ, MSTW, HERAPDF, nPDFs

Small-x: AAMQS fits, phenomenology p-p & PbPb, ...

(N)NLO pQCD: jets, photons, high- p_T had., heavy-Q (c,b,t), QQbar,

Diffraction-elastic-exclusive production, QQbar in QGP, ...

Goals & organization of the workshop

- ❖ Discuss **latest theoretical & experimental developments** connected to the **physics of the strong interaction** at the highest energies ever:
- ❖ **Share knowledge** / techniques / experiences between:
 - experiment – theory** communities,
 - proton-proton – heavy-ion** communities,
- ❖ Talks organization: **~20 mins. talks with 10 mins. for questions:**
 - **Discussions strongly encouraged !**
(if needed, talks may be shifted to the next session)
 - Morning programme: 9:00 (sharp!) – 12:00
 - Mid-day break (Mo., Wed.): 12:00 – 14:00
 - Mid-day ski break (Tues., Thurs.): 12:00 – 17:15 (sharp!)
 - Afternoon (Mo., Wed.): 14:00 – 19:00
 - Afternoon ski-day (Tues., Thurs.): 17:15 – 19:00

Other details ...

- Please upload your talk in the agenda web page:
<http://indico.cern.ch/conferenceTimeTable.py?confId=91353> (click on 'manage')
- Cocktail tonight at 19h:00
- Fee payments from 14:00 at Secretariat.
- After-lunches/dinners: activities possible (games, fussball, ...) at ground floor of canteen (free coffee in main bldg., you can buy your eve. drink at restaurant before 21h30), internet (wifi) at main buildg.
- Free bus-pass (Chamonix valley) at the Secretariat on demmand
- Ski- breaks:
 - Prarion (ski-lift, parking lot, ski rental, ...) is ~5 mins car-drive.
(main road downhill before downtown Les Houches).
 - 4-hours forfait = 28 EUR
 - (Light) snowing expected Monday (night) thru. Thursday.
 - Lunch-bags to be reserved at canteen 24h in advance
i.e. today at lunch-time for Tuesday.
i.e. Wednesday at lunch-time for Thursday.