

Workshop on "Proton-nucleus collisions at the LHC"

ECT*, Trento

6th - 10rd May 2013

Organizers:

François Arleo (LAPTH Annecy)

David d'Enterria (CERN)

Workshop topics

- About 40 talks on proton-nucleus collisions at the LHC & related topics:

EXP: ALICE (4), CMS (4), ATLAS (2), LHCb (1), LHCf (1), TOTEM (1)

Multiplicities & spectra

Azimuthal correlations

Hard probes: jets, quarkonia

Ultrapерipheral collisions

TH: Gluon saturation (multiplicities & correlations)

Nuclear PDFs

Collective effects, hydrodynamics

Quarkonia in cold nuclear-matter

Constraints on hadronic MCs for UHE cosmic-rays

Diffraction, multiparton interactions, ...

- Special seminar by J.P. Blaizot on Tuesday (17:00-18:00)

Goals & organization of the workshop

- ❖ Discuss **latest theoretical & experimental developments** connected to proton-nucleus physics:

High-energy QCD: multiparticle production, gluon saturation, shadowing, multiparton interactions, MC tuning, diffraction, ...

Open questions:

- *Any clear “smoking gun” for gluon saturation ?*
 - *Quantitative constraints on nuclear PDFs (shadowing, EMC) ?*
 - *Collective/hydro effects ? Initial- vs final-state interactions ?*
 - *Role of cold nuclear matter on quarkonia suppression ?*
 - *Quantitative improvement of hadronic MCs for UHE cosmic rays ?*
- ❖ Talks organization: **~30' talks (including ~5-10' questions)**
 - Allocated times in agenda are **indicative**.
 - No sharp time constraints. **Discussions as long as needed.**
 - Programme starts at 9:30. Coffee break at ~10:30.
Lunch break: 12:30 – 14:30
Coffee break at ~15:30. Daily programme ends at ~17:00.

Technical corner

- Check the agenda for latest updates (some changes on scheduling) and **upload your slides in indico before your talk**:

<http://indico.cern.ch/conferenceTimeTable.py?confId=216368#20130506>

- login in indico with your CERN username/password,
 - click on your talk (then on 'view details') and upload your files,
 - tell us if you encounter any problem
- **Meals:**
Lunch at ECT* (bring your tickets !)
Dinner at different local restaurants: reception tonight at ECT*,
“La Baracca”, “Orso Grigio” banquet on Thursday,

**PLEASE SIGN AT THE ENTRANCE FOR LUNCH/DINNER
EVERY DAY WHEN ARRIVING AT ECT***