

Status of the scientific programme

Including the preliminary feedback of
the LHC collaborations

9th MPI@LHC

Organization of the Scientific Program

- All Plenary talks (as always)
- 26h of Scientific activity (can bring to 30h, if needed)
 - 22h reserved for talks (20% for Q/A)
 - Additional 4h → discussion sessions
 - Average duration of talks: 20 minutes
 - 66 talks, In average 11 talks per session

ALICE (10 talks, still to be submitted)

→ **Could have been more, we had to negotiate in order to limit the number of talks**

- HF production vs. multiplicity in pp (M. Marchisone)
- Multiplicity dependence of J/Psi production (D. Thakur)
- HF production in pPb (S. De)
- Energy and multiplicity dependence of the strangeness enhancement in pp collisions (F. Bellini)
- Energy and multiplicity dependence of identified charged particle production in pp collisions (N. Sharma)
- System size dependence of the particle production in pp, p-Pb and Pb-Pb collisions at 5.02 TeV (A.K. Dash)
- New results on multiplicity and event shape dependence of the particle production in pp collisions (S.Tripathy)
- UE measurement at 13 TeV (X. Ren)
- dN/dh vs. multiplicity in 5 and 13 TeV pp collisions and comparison with MC (P. Palni)
- Anisotropic flow of identified hadrons (K. Nayak)

ATLAS (8 talks, submitted)

→ No speakers indicated yet

- Azimuthally-dependent femtoscopy in central p+Pb collisions at 5 TeV with ATLAS
- Diffractive Physics and Exclusive Production Processes at ATLAS
- Elastic and Inelastic Cross Section Measurements with the ATLAS Detector
- Jet Substructure Measurements Sensitive to Soft QCD effects with the ATLAS Detector
- Latest Minimum Bias and Underlying Event Measurements with the ATLAS Detector
- Multi-particle azimuthal correlations in pp, p+Pb, and Pb+Pb collisions with ATLAS
- Studies of Monte Carlo modeling of Jets
- Studies of Top Quark Monte Carlo Modelling

CMS (9 talks, still to be submitted)

→ Still missing one speaker

- QCD Monte-Carlo model tuning studies with CMS data at 13 TeV
- CMS underlying event and double parton scattering tunes
- Tuning of color reconnection models with CMS data at 7 and 13 TeV
- CT-PPS physics results and prospects
- Diffractive results from CMS and TOTEM
- Very forward jet, Mueller Navelet jets and jet gap jet measurements in CMS
- DPS Measurements at CMS
- Minimum Bias and UE measurements at CMS
- Results of Ultrapерipheral heavy ion collisions with the CMS experiment

LHCb (~3-4 talks? Still to be submitted)

→ A bit in late but we are iterating with the members of the Conference Committee as well as with the IAB representative (M.Schmelling) and with the LHCb convener (I.Belyaev)

- HI program?
- Update on ridge studies?
- Updates on exclusive J/Psi production?
- DPS: double J/Psi, etc?
- J/Psi production in Jets?
- Recent MC tunes?

Other already submitted (9 talks)

- Color fluctuation effects in hard nucleon and photon collisions with nuclei (Mark Strikman)
- Double-Parton-Scattering Theory Studies with quarkonia (Jean-Philippe Lansberg)
- Heavy Ions in Pythia8 (Leif Lönnblad et al.)
- Initial state effects and collectivity in p+p and p+A collisions at the LHC (Prithwish Tribedy)
- Multiple Partonic Interaction and production of Charmonia in proton+proton collisions at the LHC energies (Raghunath Sahoo et al.)
- Multiplicity dependence of light flavour hadron production at LHC energies in the strangeness canonical suppression picture (Alexander Philipp Kalweit et al.)
- PHENIX results on azimuthal correlations in small collision systems from the RHIC geometry and energy scan (Prakhar Garg)
- Particle transverse momentum distributions in p-p Collisions at $\sqrt{s_{NN}} = 0.9$ TeV (Inam ul Bashir et al.)
- The Lund string in dense environments (Gosta Gustafson et al.)

→ Ending up with a total of ~ 40 talks

(Additional talks in the queue, Just waiting to be submitted

Negotiating seminal talk on “MPI and Flow patterns in small systems”)

Conclusions / Next actions

- The w/g conveners should x-check the submitted and envisaged talks against the ones requested, they should also let us know their desiderata concerning the assignment to their session
 - Please notice that the talk assignment cannot be guaranteed. They finally submitted abstracts may reflect multiple requests from different conveners, the final assignment of the talks will be done once the scenario is complete, taking also into account a natural balance between the different working groups. In any case the organizers will not proceed before November 15.
- There might still time for touch ups
 - Missing contributions which are considered essential for the success of the workshop, etc.
 - Please take into account that the “all plenary” requirement puts severe constraints to the number of talks that can be really accepted.

→ For now we have a total of ~ 40 talks which is supposed to grow in the next days

Also negotiating 1h seminal talk on “MPI and Flow patterns in small systems”