Underlying event and Minimum Bias (WG1)

(Last year: 8 talks)

PLAN:

- Theorists confirmed (4 talks):

Andre' Giannini (asking for support) - particle multiplicities with kT factorization Thomas Trainor (Soft and hard models for UE in Pythia8)

Boris Blok (minijets in pA)

Mark Strikman + Maxim Azarkhin (multiplicity correlation studies)

- Theorists/Phenomenologists contacted but no reply:

Yannis Makris (https://arxiv.org/abs/1803.04413)

Matthew Dolan (https://arxiv.org/abs/1609.00607)

Robert Vertesi (https://arxiv.org/abs/1809.10102)

Antonio Ortiz (https://arxiv.org/abs/1809.01744)

James Monk (https://arxiv.org/abs/1807.03685)

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- Collaborations confirmed:

ATLAS

- 1. Softdrop+jet shapes
- 2. Fragmentation studies (g->bb and fragmentation using charged particles)
- 3. Z UE at 13 TeV + 4 lepton DPI

CMS

- 1. Recent results on Minimum Bias and Underlying Event by CMS
- 2. Small system physics from CMS: energy and multiplicity dependence of identified particle production
- 3. Small system physics from CMS: energy and multiplicity dependence of particle correlations
- Collaborations contacted but no submission yet:
 - ALICE
 - LHCb
 - STAR
 - PHENIX

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Activity of contacting theorists/collaborations not started yet but first round of mails to be sent before August's holidays

(Last year: 8 talks)

PLAN:

- Focus on Underlying Event measurements and jet substructure observables
 - Particle multiplicities, event shapes in different final states
 - Phenomenology studies about tagging boosted objects from substructure
 - Total and inelastic cross section measurements
- contact LHC collaborations (based on last year ALICE, CMS, ATLAS, LHCb)
- contact RHIC collaborations (STAR, PHENIX?)