

# News

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## LHC Forward Physics WG meeting, CERN, October 26-27 2015

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## Yellow report status

- The YR was successfully submitted to the LHCC in the beginning of September - **Theanks to all conveners, contributors and referees!**
- Introduction: N. Cartiglia, C. Royon, J. Bartels
- Background and run plans: C. Royon, V. Avati
- Monte Carlo: L. Harland-Lang
- Soft Diffraction: V. Avati, T. Martin
- Hard Diffraction: M. Ruspa, M. Trzebinski
- Central Exclusive Production: M. Saimpert, L. Harland Lang, V. Khoze
- Forward Physics: C. Marquet, J. Bartels, H. Jung
- Cosmic ray: T. Pierog
- Heavy ions: D. Tapia Takaki
- Detectors: J. Baechler, V. Avati
- YR to be published in Journal of Physics, and to be available on ArXiv

## Forward Physics at FCC

- First discussion about possibilities of forward physics measurements at this meeting (introduction by Helmut)
- Which physics topics?
  - Total, elastic, inelastic cross sections
  - Soft diffraction
  - Hard diffraction, QCD, Pomeron structure
  - Photon-Photon and Photon-Pomeron physics (anomalous couplings...)
- Machine specificities / running conditions that will allow these measurements? Free space close to beam pipe?
- First ideas of detectors?
- Report on physics at 100 TeV: by Jan./Feb. 2016 (mainly short studies about diffraction)
- How to get organised? Subgroup of people interested with one coordinator from our group? Dedicated meetings?

## Agenda of the CERN meeting

- Tuesday, 27 October 2015
  - RPs insertion at high lumi - Mario
  - Discussion about acceptance limitation (TCL4/TCL5) and RP tests
  - Combined CMS-TOTEM runs at  $\beta^* = 90$  m - Valentina
  - Operation/performance of the first  $\beta^* = 90$  m (ALFA) - Karlheinz
  - First results from newly installed Forward Shower Counters in LHCb - Paolo
  - Forward Physics options at the FCC - Helmut - and discussion
  - SAS at LHC: a multi-particle forward spectrometer for  $x_F = 0.1-0.8$  particles - Mike
  - AFP test beam and the AFP tracker - Joern
  - Latest results of the diamond detectors with the timing electronics - Mirko

## Agenda of the CERN meeting

- **Wednesday, 28 October 2015**
  - Measurement of the inelastic cross section at 13 TeV (ATLAS) - Bradley
  - Latest results from TOTEM - Ken
  - Negative baryon/antibaryon asymmetries for heavy flavor baryon in central region and baryon fragmentation - Olga
  - Physics plans with AFP0+2 and AFP2+2 in Run II - Rafal
  - Superchic II - Lucian
  - MN jets - 3 jet measurements - Grigorios
  - Trigger, DAQ and DCS for AFP - Krzysztof
  - CT-PPS status report - Michelle
  - Status of AFP construction and plans for installation - Petr
  - Timing Detectors with Si - Nicolo
- **Next meeting:** March 15-16? CERN
- **Meeting outside CERN:** Trento, September 2016?
- **Do we need an additional meeting at CERN? Or a broader meeting outside to which we are associated? Volunteers welcome!**