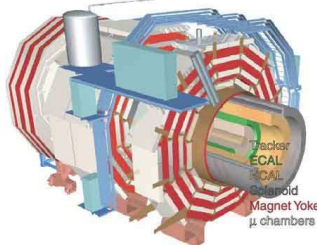




# 1<sup>st</sup> Joint Experimental Meeting on Early LHC Measurements



## “Min-Bias” & the “Underlying Event”



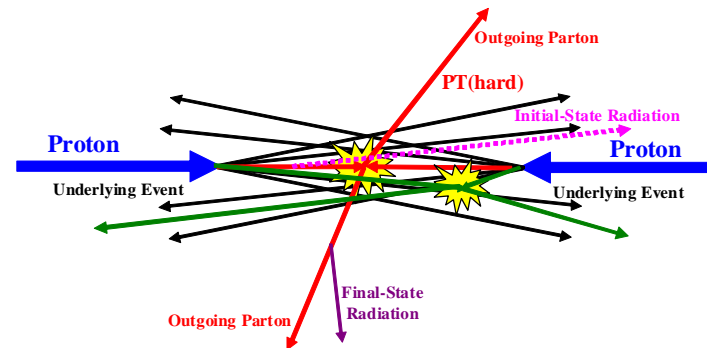
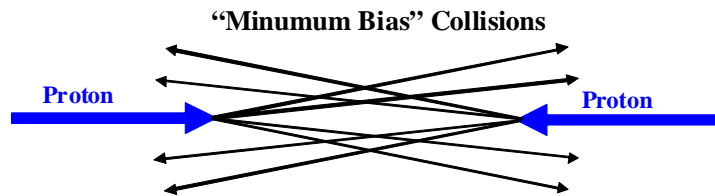
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CERN August 14, 2009

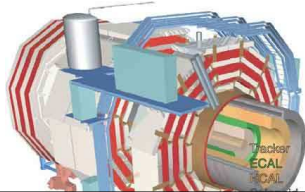




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## “Min-Bias” & the “Underlying Event”



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If every experiment runs different tunes, how are the QCD Monte-Carlo builders (and tuners) going to know what is going on!



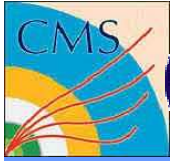
ATLAS



- ➔ I am happy that some representatives from ALICE and LHCb are here! It is important for them to be involved as well. They will be making some important early measurements!

### Possible Goals

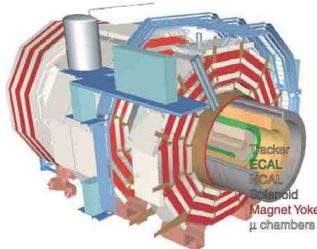
- ➔ Discuss the QCD observables we plan to measure with the 2010 LHC run.
- ➔ Establish a list of a few QCD measurements both collaborations will produce and present in similar ways. This will be extremely useful for physics validation/benchmark at the LHC.
- ➔ Also very important for the QCD Monte-Carlo generator builders (and tuners)!
- ➔ Establish a “reference” QCD Monte-Carlo tune that both collaborations will run in addition to any other tunes they might also run.
- ➔ Also would also be very helpful to the QCD Monte-Carlo generator builders (and tuners)!
- ➔ Maybe the first of series of such meetings? We can discuss this later.



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## “Min-Bias” & the “Underlying Event”



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- ➔ Michelangelo will discuss plans for an “LHC Analysis Resource Center” at CERN (the **LARC**??), which could also be of benefit to both theorists and experimenters.

### Additional Remarks

- ➔ I am only talking about possibly comparing a few basic (non-Nobel prize winning) QCD distributions.
- ➔ Having some early interactions among the experiments should help in the commissioning of the detectors and lead us to the new physics faster!
- ➔ In my opinion the experiments should not (at this stage) collaborate on finding new physics (e.g. Higgs, Super-Symmetry, Extra Dimensions, etc.)! For the new physics each experiment should use their strengths and resources to compete to find new physics first. Of course, the other experiments should check each other if new physics is claimed. This is way you have four experiments and not just one big collaboration!