



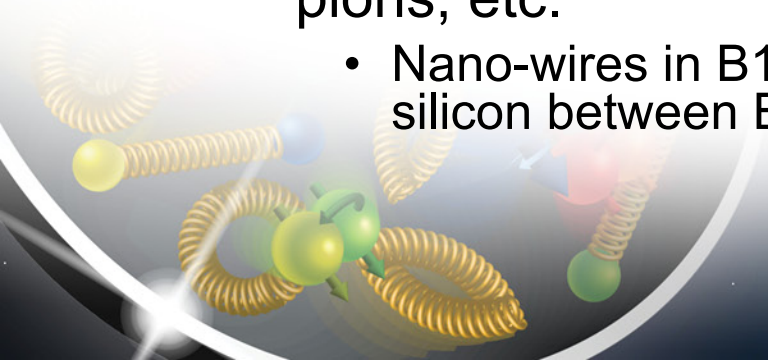
Far-Forward & IR Integration DWG Update

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Electron Ion Collider

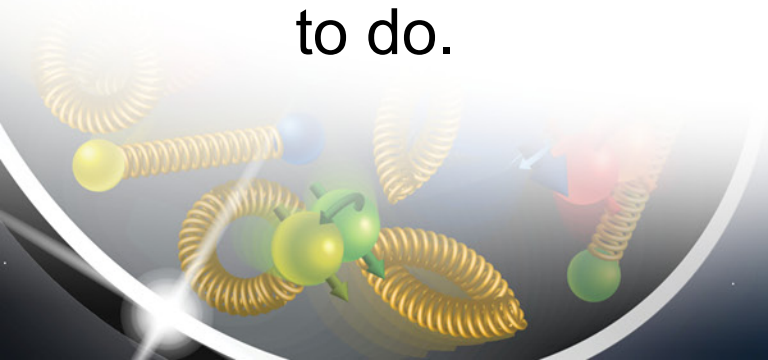
Review of Pavia

- Had joint meeting with central integration.
 - Discussions on material budget, central solenoid, etc.
- Joint meeting with Exclusive and Diffractive/Tagging PWG.
 - Discussed status of simulations in the FF region and the impact on the respective groups physics interests.
- Main concerns going forward -
 - Inclusion of central solenoid in simulations.
 - Study of material budget (beam pipe, pumps, windows, etc.) impact on physics.
 - Inclusion of possible additional detectors for photons, pions, etc.
 - Nano-wires in B1apf magnet, photon detection in B0pf, silicon between B1apf and ZDC, TOF capabilities, etc.



Current Status (on the wiki soon)

- Simulations ongoing.
 - Simulation completed for DVCS, e+d spectator tagging.
 - Ongoing for lambda decay, e+C GCF from BeAGLE.
 - Scan of protons in the forward IR for overall acceptance completed.
 - Material budget considerations, beam+machine backgrounds, and beam+gas backgrounds still left to do.



YR Section Outline

- Working draft on Overleaf:
<https://www.overleaf.com/project/5e2e4b1fb24ba1000124924a>
- Section outline:
 - Intro
 - Forward (hadron+photon) detectors
 - Rear (electron+photon) detectors
 - Integration with machine
 - Physics impact
 - Conclusions
- Several sections are currently written up in the Overleaf, and we are in the process of putting more of the completed studies into the document.

Detector Technologies (on the wiki soon)

- Discussed at length over the past months. Need to summarize findings on the Wiki.
 - Silicon (AC-LGADs for the RP and OMD)
 - Hadronic Calorimetry for ZDC (ALICE PHOCAL)
 - EM Calorimetry in front of ZDC
 - Silicon for B0 spectrometer

