BT Meeting Minutes 28 November

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I did not take detailed minutes as I normally do, just had time to write some comments that I think are worth keeping to the records

- Event selection cuts:
  - Bill warns that the vertex selection should not be used blindly, in particular if we are in sync with the latest GR versions wehere we added the neutral energy events variables, which effectively doubles the number of vertices. His suggestion is to look at the vertex status bits and verify that the cuts we use do what we think

- Simulation status
  - Luca suggest to change benchmark run for producing different MC flavors, and move away from 2082 which was shown to have some possible issue in the beam phase space plots

- Collimator simulation
  - Bill commented that an actual collimator is much heavier than what was simulated and shown by Johan; he requested a thorough check of the beam line simulation
  - Francesco will provide documentation on the current simulation which indeed includes all the material along the beamline, but does not simulate the actual beamline in its full length; we will consider such a simulation

- electron/hadron separation
  - Francesco presented a study to separate these two classes of events based on max likelihood method
  - Alex requested details for the calculation of the likelihood as he thinks the method is not applicable since you have to know particle energies a priori
  - Francesco and Nicola clarified that the purpose of the study is to make a data-MC agreement study, not to identify electrons in flight

- 2082 beam spot issue
  - Nicola suggest it is due to a weird combination of noise strips in layers 31 and 35
  - Leon thinks we should keep that in mind as we treat noisy strips with different thresholds in DAQ and in offline reconstruction software