Code description: guidelines

ABP-CWG meeting

Points to be addressed (I)

- Description of the physics and the modeling of the code
  - What effects are included and what are not?
  - What is the impact of the simulation tool for CERN studies?
- Code implementation
  - Programming language(s)
  - Programming style (object oriented, procedural, …)
  - Prerequisites to run the code (OS, compilers, libraries, other codes)
  - Parallelisation technology (if any)
- Example of typical application (use case)
  - How many simulations for one study
  - Where the code is run (lxplus, lxbatch, other clusters)
  - Computing time

Points to be addressed (II)

- Performance
  - Is the performance in general adequate to the present needs?
- Available documentation
- Licensing policy
  - Open source?
- Future plans and needs
  - Maintenance, extension and further development
    - Include more physics to better model cases of interest for CERN?
    - Performance improvement?
  - Resource estimation for maintenance/development over next years
  - What type of hardware resources would be best suited for the physics case?