



Latest development for the next FullSim production

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Background Simulation Meeting

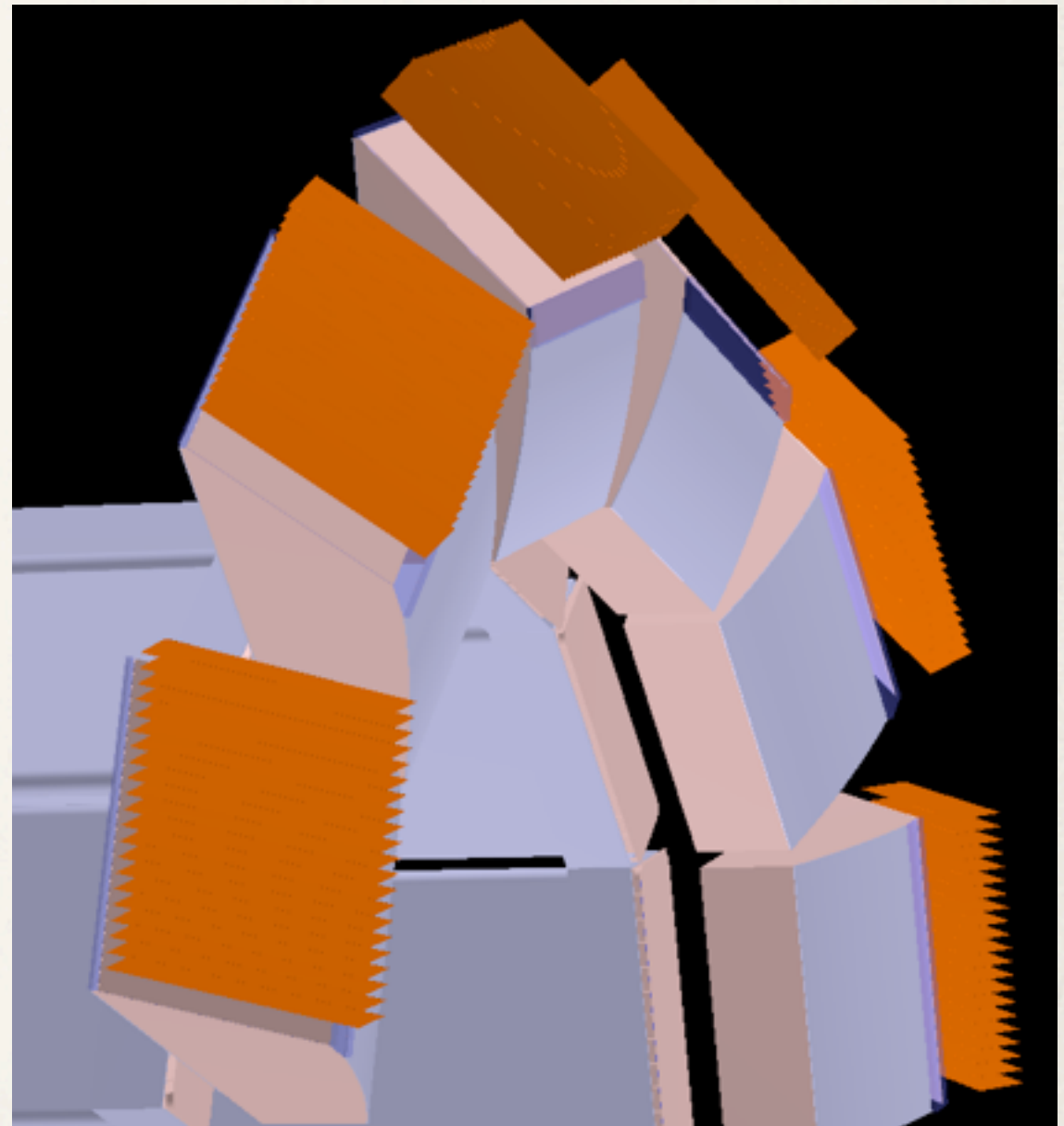
Apr 12th, 2012

Bug Fixes

- Hits in DRCHits and SOBHits are missing some additional information, like the vector momentum of the tracks, due to using **BrnSensitiveDetector**. Replaced with the updated **BrnSensDet** and **BrnSensitiveDetector** is now obsolete. If you need please use **BrnSensDet** to fill additional hit collections
 - This information on DRC hits is needed to extract the incident angle of a track on the bars and obtain the plot of # optical photons vs track angle. Macro to produce those plot are ready, need to wait for the new production
- Minor fix in BrnRootHit to remove a warning when compiling Bruno shared library to be used with ROOT

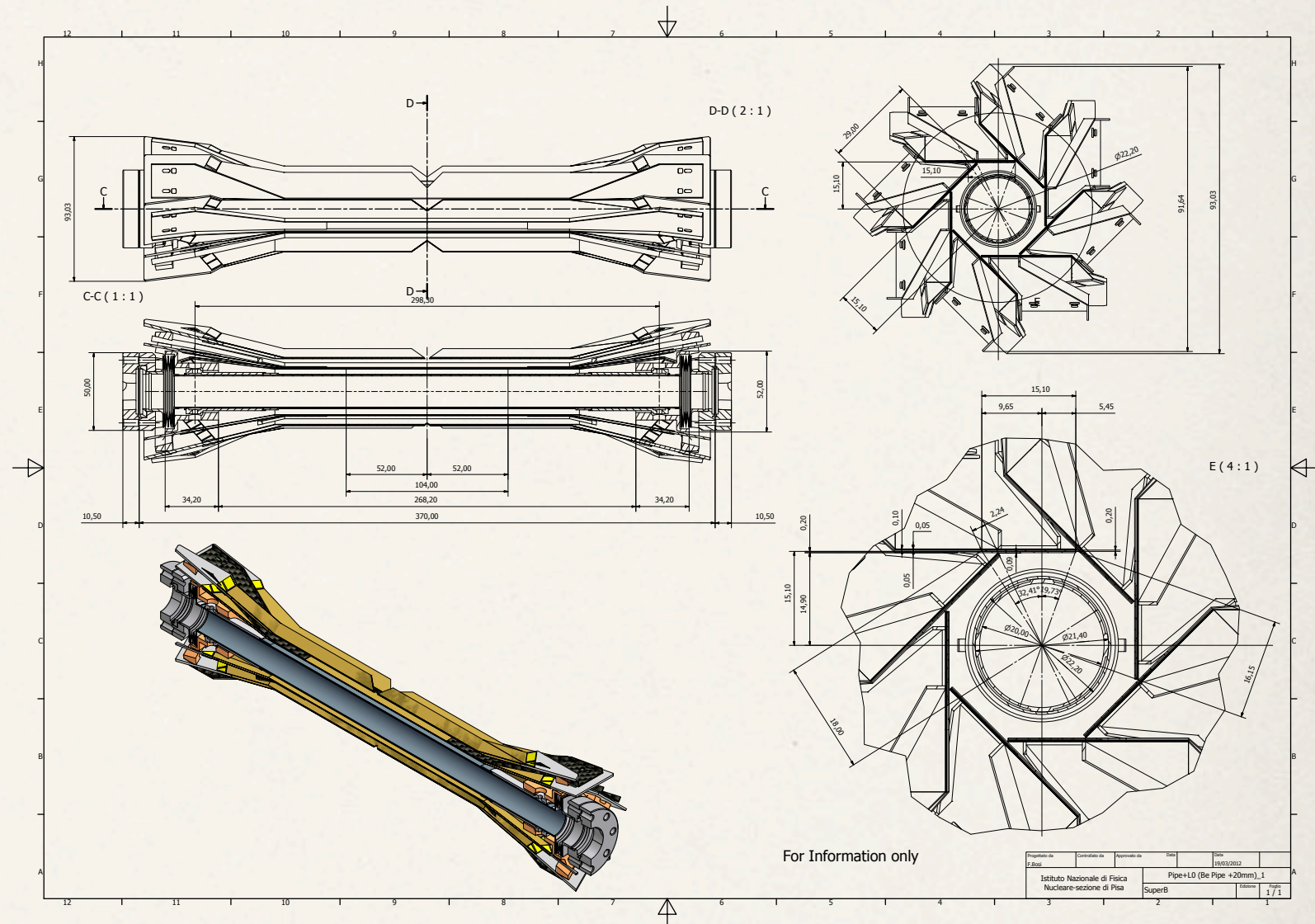
New development

- Request from Drc people for instrumenting FDRC electronics. **Silicon plate**, behind the FDRC pixels, similar to engineer's design. Volumes have been sensitized, new hit collection **DRCFEEHits**. Dose and fluxes will be provided
- Tested with geantino's and for overlaps: **PASSED**



Future plans

- Not to be used for the next production
- Svt L0 geometry: a new design is ready for L0 with triplets.
 - Longer beampipe, split pipes are going to be shortened. No modification after that point
 - FEE boards for layers 1-2 to be relocated to make room for L0 boards
- Svt geometry for outer layers: outer layers are the same as in Babar, but SuperB acceptance is wider. Need symmetric fwd/bwd modules



Conclusions

- Small but relevant code and geometry developments for DRC to be included in the forthcoming production