

RD51 Simulation/Software School

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□ programme & format
mostly hands-on practice and examples

□ duration: 2 days

□ target audience
graduate students and postdocs

□ expected attendance
~30 persons

Program

Geant4 tutorial [G4 team – John Apostolakis]

Root

COMSOL [Paulo Fonte]

Magboltz / Heed

GARFIELD and neBEM [Rob Veenhof]

C++ GARFIELD [Alain Bellerive]

Format

- We will require help of senior graduates students... the one doing the work [Heinrich Schindler, Nicholi Shiell, and others]
- A virtual machine will develop for the Linux and Window platforms with preloaded software packages
- No multi-users COSMOL license yet; so this part shall be mainly a lecture instead of hands-on... in contact with reps
- Participants will need to bring a laptop
Installation of the virtual machine ahead of the workshop
- Basic programming knowledge required
- Location: CERN
Dates: January 20-21 (after the next RD51 mini-week)

Goals

- Train students and postdocs
- Teach via examples / Show the new tools
- Bring new people to contributing code to existing project or novel ideas to WG4
- Lead to the development of common simulations and software tools for MPGDs
- Consolidate current efforts and release strain on a very small group that does code development, calculations and modeling (short term)
- Build link with detector characterization and development of readout electronic (longer term)