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About us

Carlo Rubbia, Nobel Laureate in Physics in 1984 and former CERN General Director, started in 1993 with the EET group a new activity for developing innovative ideas in the domain of energy production and applications. He proposed, in particular, the Energy Amplifier, an innovative way to extract nuclear energy with the help of accelerator-induced nuclear cascades.

Activities

The EET section has a very strong background in computational physics, focused on the development of models of particle interaction and accelerator driven systems (ADS). The main tasks of the section are:

- to perform beam-machine interaction studies with Fluka concerning all the accelerators presently in operation and under design at CERN, in particular the LHC beam cleaning system and the CNGS line;
- to support the public releases of the Fluka code;
- to develop new physics models necessary for the study of present and future projects;
- to coordinate the simulation and engineering studies of the Multi-MegaWatt target in the framework of the EURISOL-DS project (Task #2);
- to take technical responsibility of the nTOF facility, including the nTOF beam line and the experimental area, and the coordination of CERN’s obligations as host laboratory;
- in collaboration with JINR (Dubna) and IPPE (Obninsk), to take responsibility of fission cross section measurements with the FIC detector at the nTOF facility.

Available Information

- computing infrastructure
- Fluka tools
- official Fluka webpage
- docStone project management (Login with NICE credentials) Documentation
- internal notes and reports

Links

- Collimation Working Group website
- R2E web site
- Twiki of the nTOF Facility

Web Utilities

- advanced search
- WebTopicList - all topics in alphabetical order
- WebChanges - recent topic changes in this web
WebNotify - subscribe to an e-mail alert sent when topics change
WebRss, WebAtom - RSS and ATOM news feeds of topic changes
WebStatistics - listing popular topics and top contributors
WebPreferences - preferences of this web