

2016-08-15 ACHIP Meeting

Participants:

Sven Reiche, Simona Bettoni, Franziska Frei, Nicole Hiller, Cigdem Ozkan, Rasmus Ischebeck, Eugenio Ferrari, Yelong Wei, Micha Dehler, Werner Zoller

Status and updates:

- Meeting with SwissFEL director's board. Rasmus gave a presentation with the overview of the project.
- The design change request will be submitted in time for the next STE-CO meeting (within the next 2-3 months).
- Next meeting: 22.08.16 (To avoid superposition with the FLAC)

New laser location:

Room L3.120 (at Z = 320 m).

The room is located directly above the switchyard experiment, in the service tunnel in the top floor.

Still required for the room:

- "Laser hutch"
- laser transport (includes where and when to drill the hole connecting it to the accelerator tunnel)
- climate control (temperature and potentially also humidity).
- Room should be available from January onwards with the installation being done before Summer 2017.
- Question: Can we use a fiber-transport instead? -> Investigate (Eugenio will look into this?)
- Question: Will the Erlangen collaboration partners supply laser feedback (pointing stability and LAM)? Need feedback for the transport path also (Eugenio will check with them)

Laser time plan and milestones

- Postponed for the next meeting.
- Hole-drilling ideally in Jan/Feb shutdown

Detection setup update (Marie)

- Postponing the presentation (Marie is sick)

Synergy with other projects and experiments

- Discussion with Simona: Can the ACHIP chamber be also used to test corrugated pipes in order to generate THz radiation? This could potentially be used for user experiments.
- We will need to figure out where to detect the THz radiation (1-10 THz) and how exactly (definitely need intensity and spectrum).
- On a sidenote: Workshop has started to build hardware for Split-Ring-Resonator FLUTE-KIT-Experiment