

Safety-at-Work Issues at the HLD – 10 Safety Rules

- 1.) Pulsed-field experiments are supported and serviced by the HLD staff. The operation of the capacitor bank and the pulsed magnets is restricted to designated experts of the HLD.
- 2.) Access to the technical installations of the HLD (such as the capacitor banks) is restricted to HLD staff members, only. Users and guests of the HLD are requested to ask HLD staff for guidance if needed. Prior to preparatory work in pulsed-field chambers, HLD staff has to check the power-supply components (including magnets, high-power connections, grounding system) for safe-operation conditions.
- 3.) During pulsed-field experiments, staying in the interlock-controlled rooms (capacitor halls, magnet chambers, preparations labs and corridor) is strictly prohibited.
- 4.) For the use of cryogenic liquids, untrained users will be assisted by HLD technicians or scientists. The access to magnet pits is prohibited if liquid-nitrogen dewars are filled. In magnet chambers and preparation labs, the oxygen content is measured. A control system indicates possible oxygen deficiency. In case of alerts of the oxygen-deficiency control, transfers of cryo-liquids have to be stopped and HLD staff has to be informed.
- 5.) The use of electronic and cryogenic equipment will be assisted by HLD staff. Devices not in use have to be removed from the magnet chambers during pulsed-field experiments.
- 6.) In the rare case of an emergency, such as a coil failure, instructions of the HLD staff have to be followed. In particular, the entry to magnet chambers is not allowed due to possible dangers caused e.g. by high voltages, dust, smoke or oxygen deficiency. Instructions of the fire department must be strictly adhered to.
- 7.) The use of machines, tools and test equipment located in the workshop (building 621) of the HLD is restricted to HLD technicians.
- 8.) For the use of high-power lasers (including the FEL) the following additional rules have to be followed:
 - (I) use protection glasses (certified for chosen wavelength range);
 - (II) the sign "LASER" must be turned on during the operation of the laser;
 - (III) keep the optical-lab door closed when operating the laser.
- 9.) Observe good housekeeping practices. Work areas should be kept clean and tidy at all times. Dispose of all chemical waste properly (ask HLD staff for help). Smoking is strictly forbidden in the HLD as in all public buildings.

10.) In case of emergency, dial

Fire	112
Accident	112
Other	3333

Date and signature of the user:

Full name in block letters:

Institute name in block letters:

Please submit the signed document to the secretary, Mrs. Blöcker or Mrs. Zimmermann (building 613, rooms 103 or 127) at your earliest convenience.