



If you are present at a power-failure, prepare the Emergency-Power-System (in D320 Mg-Lab next to the electronics/chemistry cabinet) and get gasoline (Super Benzin)

At (severe/long) power failure

- Set up the emergency power system (EPS) on the balcony room - (Parameters to turn it on: Choke: Turn off, Gas: Turn on)
- Disconnect the marked power-cord (next to "Notaus") from the power-plug and put it into the EPS. Now, the turbo-pumps and IGP should be save
- If the turbo-pumps fail: Close the big valve below the chamber-table for the big turbo pump and turn off the big turbo.

Things to do after power failure

There are two power-failure situations. One, where a fuse or the Notaus in the lab has triggered the power failure and then one, which happens for the whole IQ/UNI. The later one needs an additional treatment.

Whole IQ/UNI power failure



Most probably the ACs will fail after a power failure

- Turn off every device (Oscilloscopes, commercial systems etc) and all the power supplies in the "Stromschrank" to avoid unecesary heating of the lab
- Check if the AC is working again (call 4440 to tell them or wait for the next day until it's fixed).<hi #ed1c24> Indication for a not working AC</hi>: The red light next to the WC/KRb Office is flashing (but musn't)
- If ACs are working again, turn on every single device again.

Checklist of devices

Vacuum

- Check if all pumps are running and all pressures are ok
- If pressures and pumps are ok (especially pre-vacuum and turbos) open the pneumatic valves (Next to the Lab-Door, there is a orange interlock. Press the reset button. You will hear the valves)
- Open, if it has been closed, the big valve below the table at the big turbopump

S-MOT Laser

- Turn on the Toptica controller (green button)
- Check the temperature controller of 285
- If a PID does not seem to work (e.g. Offset cant be set): Unplug it from power and replug it.

Triplet Laser

- Turn on the Thorlabs TECs for the Laserdiodes (they turn off on a power failure)
- Turn down the current for every laser-diodes (even when the controllers are still off), turn the controllers off and set the short button to short
- Reenable the powersupply for the LD (in the Stromschrank): Orange interlock (Press the reset button)
- Turn on each laser controller. Then un-short the diodes. The ramp up the current
- If a PID does not seem to work (e.g. Offset cant be set): Unplug it from power and replug it.

Wutz

- Turn on the Toptica controller (green button) - If it does turn off itself: Wait 15 minutes for the TECs to settle and try again.
- Turn on the EOM-Synthesizer (located on bottom of Dipole-Rack) and set it to the correct frequency (written on the device - Recall, 9, Enter)
- Monitor for Wutz/Clock-Laser: In the menu, go down to PIP (Picture-in-picture) and press right: It should enable the Wutz cam on that monitor again

Lattice Laser

- Check if the Meerstetter for the TiSa is working (green LEDs)
- If a PID does not seem to work (e.g. Offset cant be set): Unplug it from power and replug it.

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