

Static values

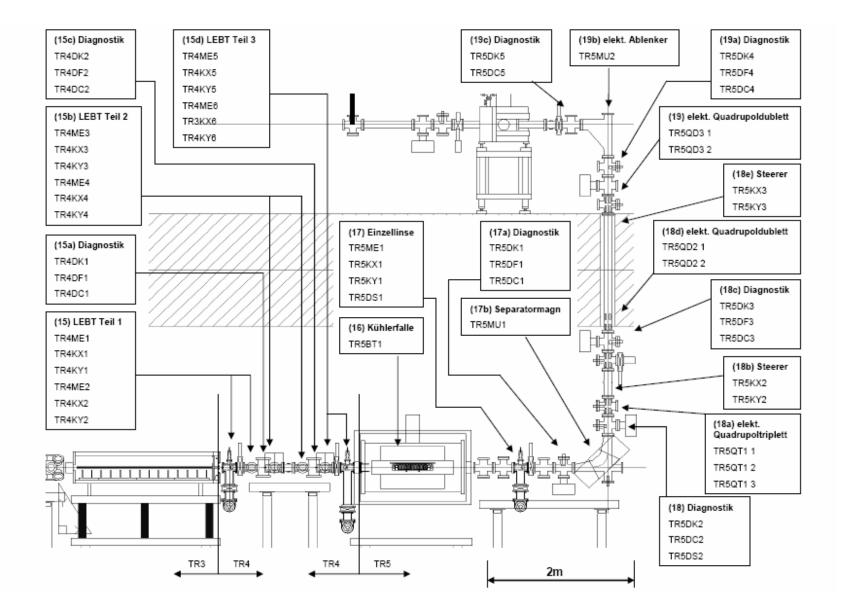
Otune once − stay forever

Dynamic values

 might change from pulse to pulse (ESR macro pulse every 10 s) or even within a pulse (electron separation, ejection etc.)

Note: During tuning the static values are also dynamic.

The Low Energy Beam Transfer





Set, read, reset, save, load of static values

in groups
one by one

Tuning of static values

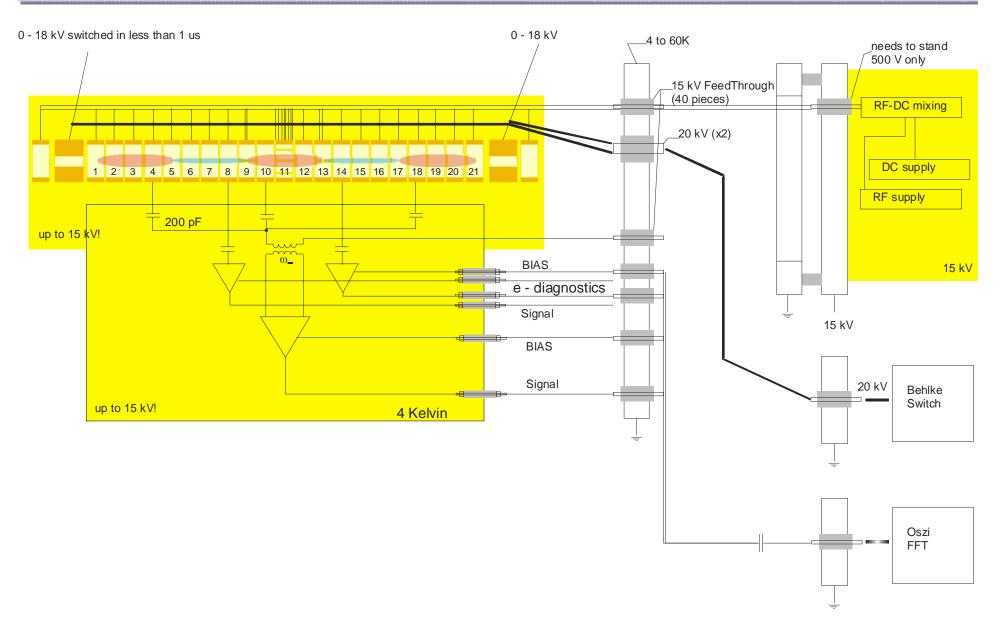
change value from pulse to pulse and relate it to a given signal programmatically

Operation of the CoolerTrap

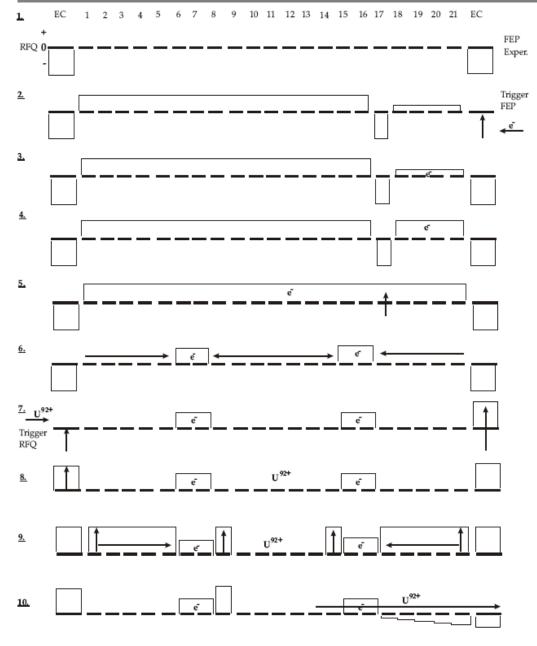
static and dynamic values (voltages, frequencies, times)

Operation of the Cooler Trap





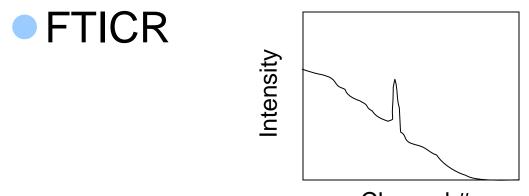
Sequencing



- Actual timing will be controlled by hardware (FPGA)
- Sequence and voltages might change from pulse to pulse (tuning)
- Fast voltage changes within one sequence are preprogrammed in the power supplies







Channel #

Intensity after ejection (FC, MCP, Screen)

