



Lithium Target Update

SETUP AND SOFTWARE CONTROL

PHILIPP ECKERT, 13.01.2021

Setup

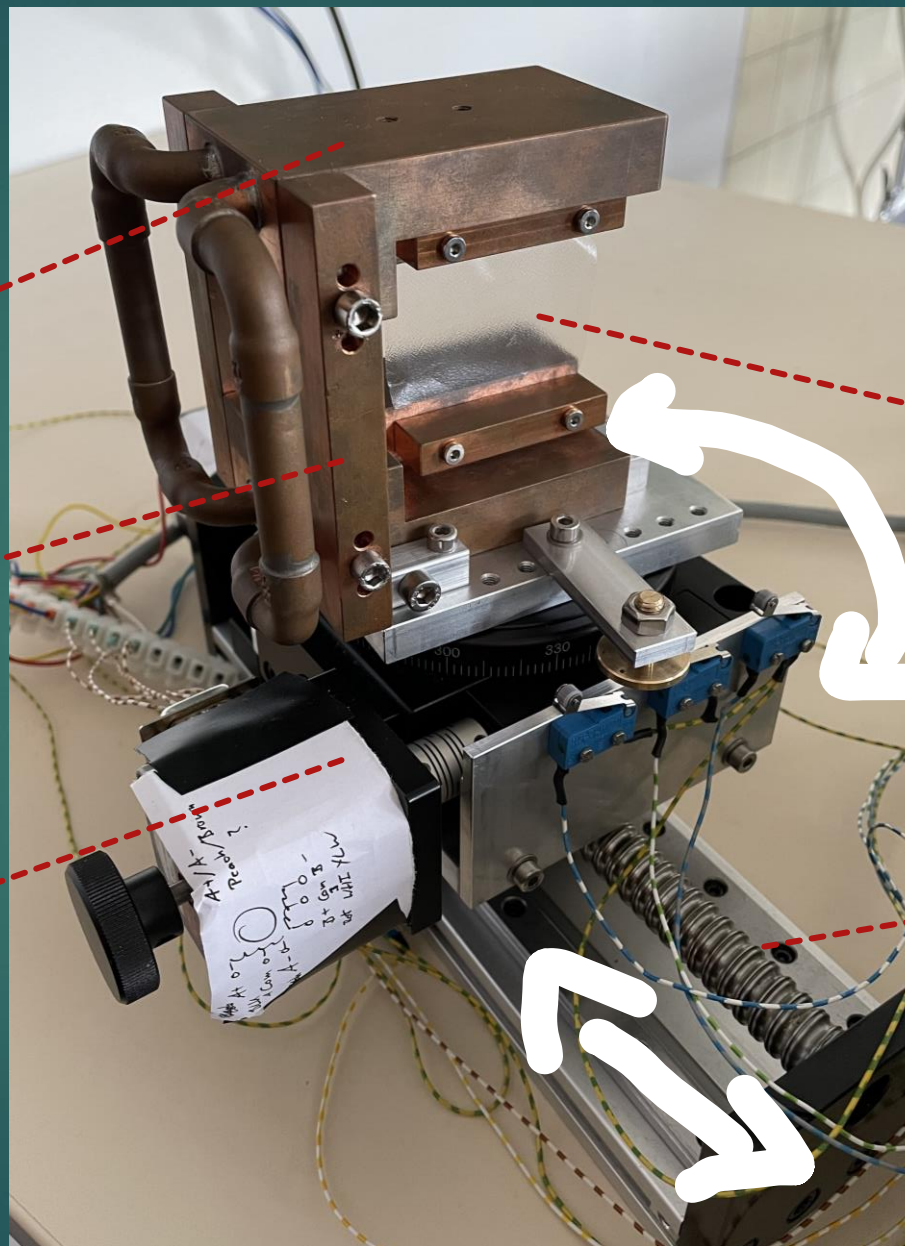
Target ladder on top

Copper frame

Rotary stage

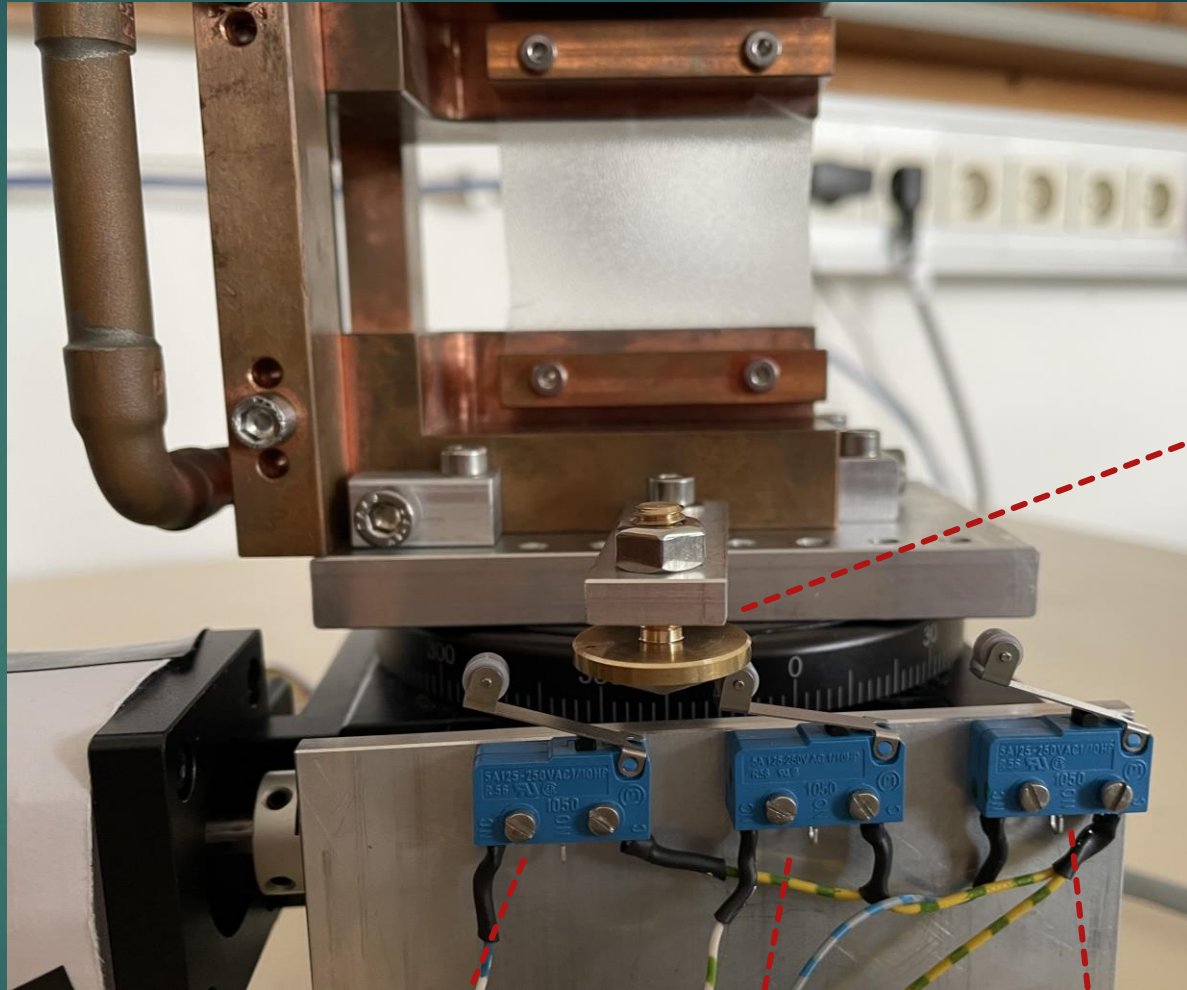
Lithium goes here

Linear stage



Rotary Stage

- 3 switches
- Home and End to limit motor motion
- Reference to calibrate motor position



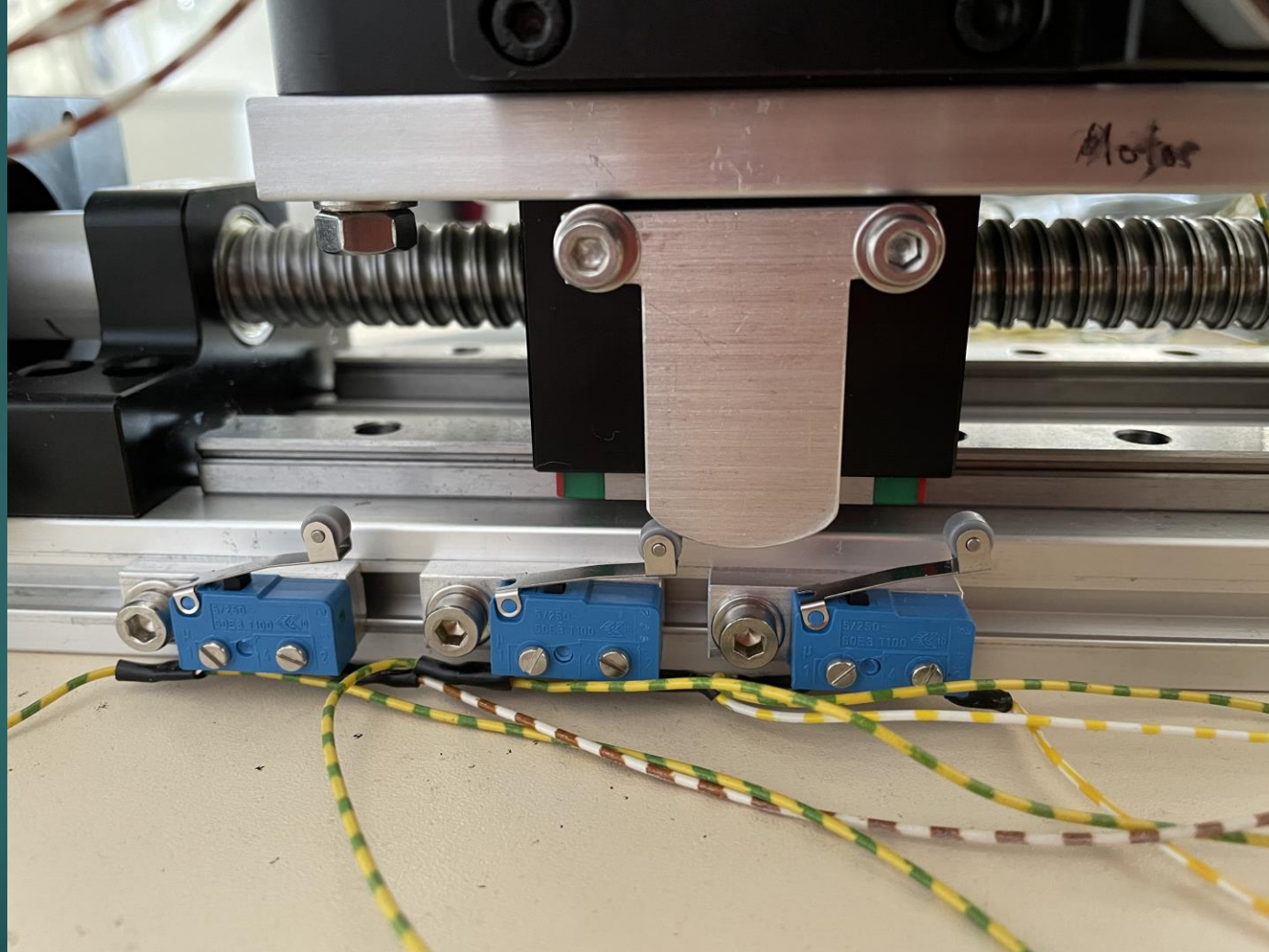
Clicker

End

Reference

Home

Linear Stage – same principle



Target Control Program

The GUI

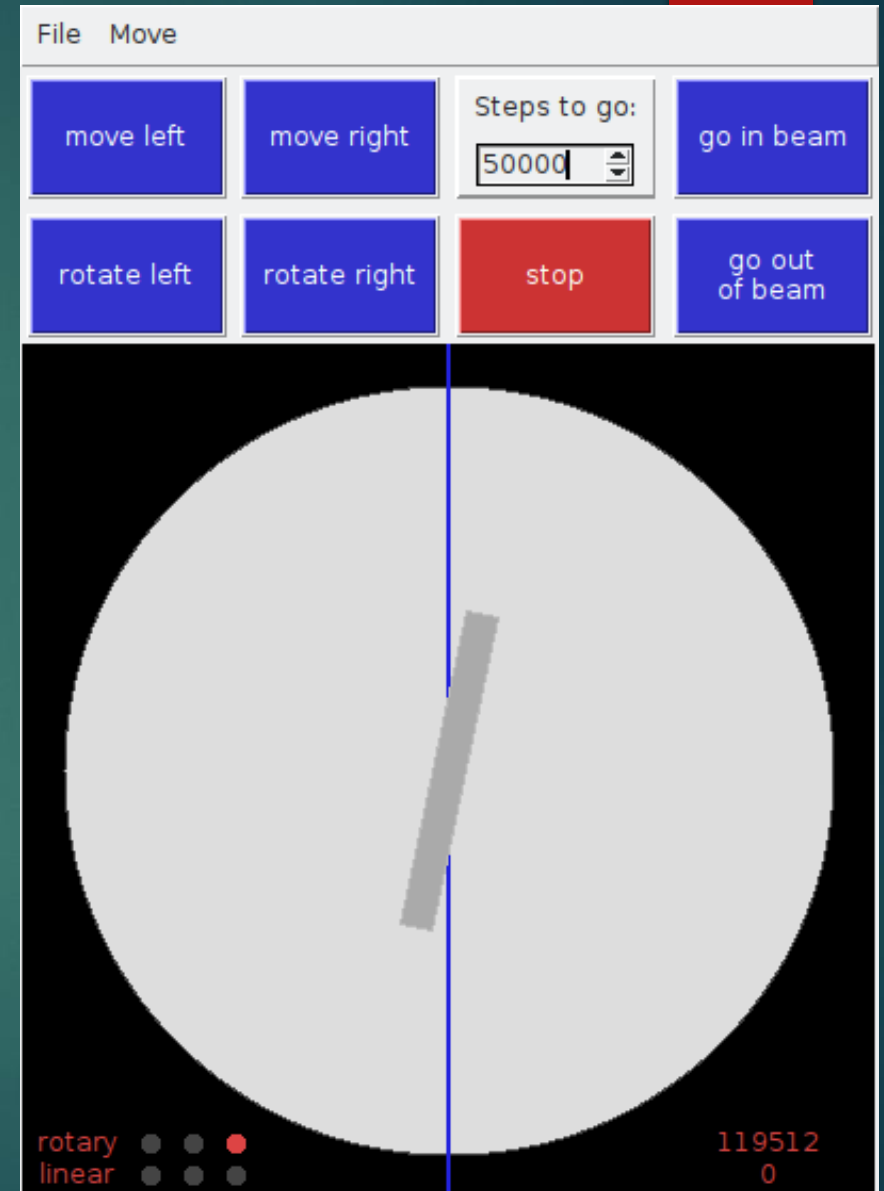
- written in Python with tkinter
- running on a Raspberry Pi

enables for:

- observation of target position (sketch and numbers)
- displaying status of switches
- moving both motors by custom number of steps

furthermore:

- positions can be saved and moved to
- automatic reference run for calibration



Thank you for your attention!