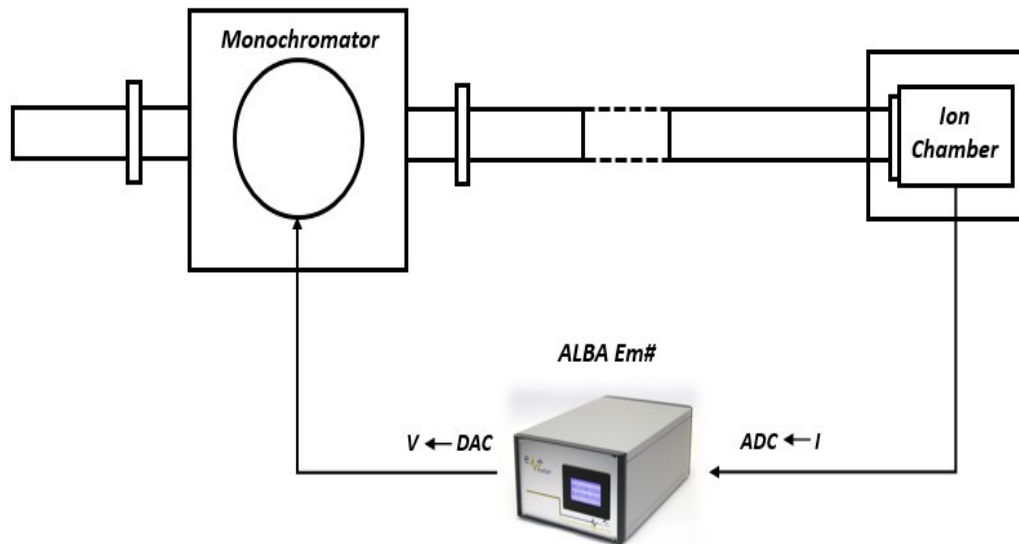


MONOCHROMATOR CONTROLLER BASED ON ALBA ELECTROMETER EM#

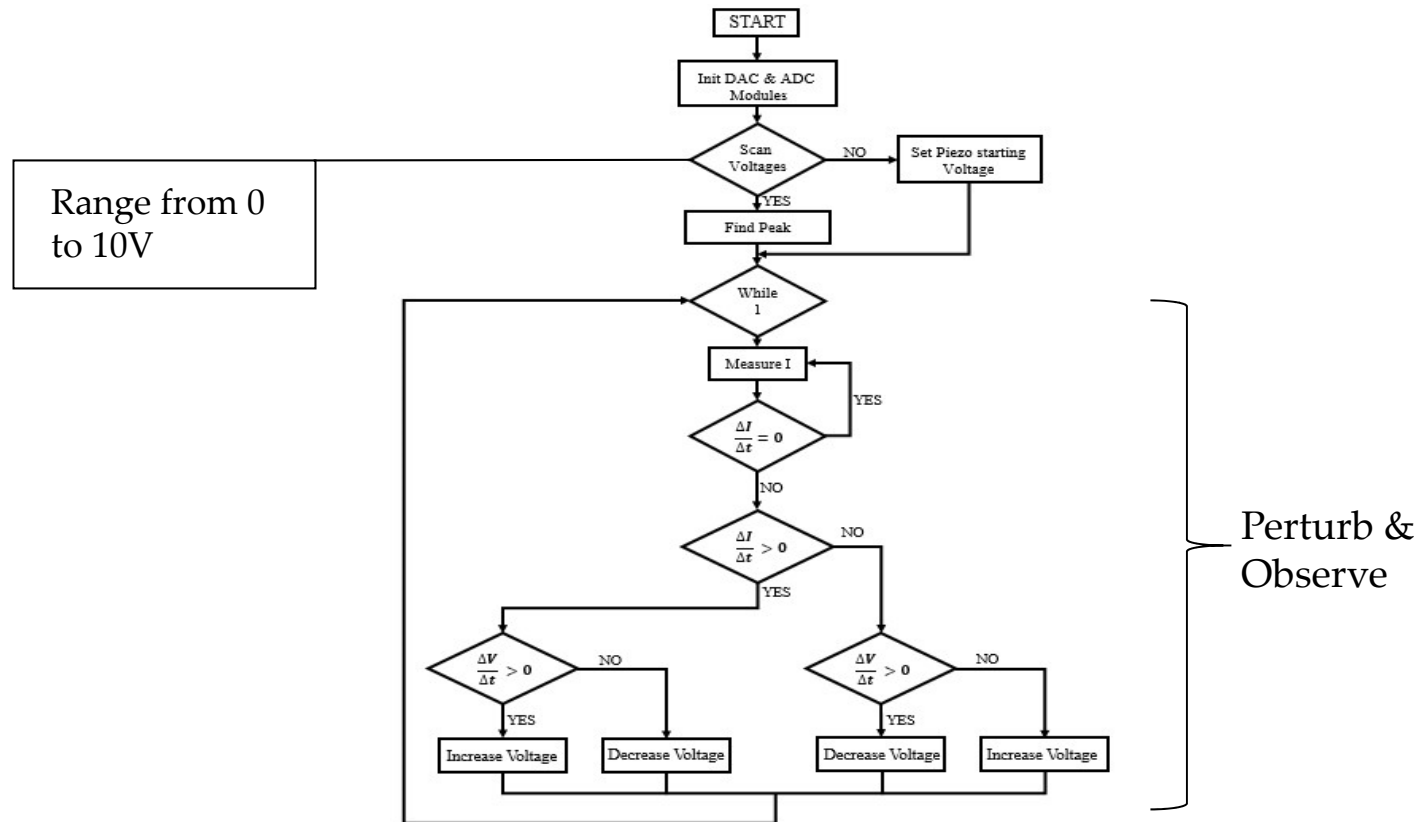


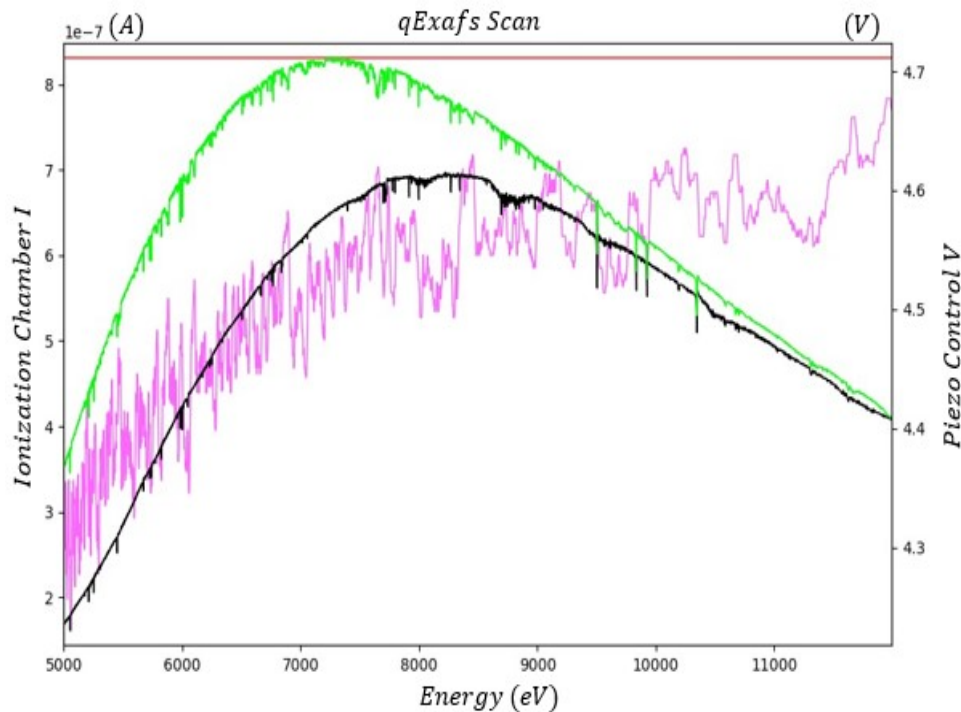
Strengths

- Easy integration in the ALBA control system
- Warranty of stock and support thanks to Em#

Weaknesses

- Introduces noise to the system
- Accurate fine tuning needed





- Observed current increment of around 25% up to 7500 eV.
- Regulation is sensitive to diffraction glitches of crystal and electric noise.
- Improvement of noise filtering.

Functionality

- Oscillation mode proof of concept verified
- Maximizes current over energy range
- Solves stock and support for monochromator controllers

Status of the project & next steps

- Development stage, efforts focused on noise reduction
- Hardware filter on piezo input
- Oversampling
- Further tests on different conditions

Thank you!