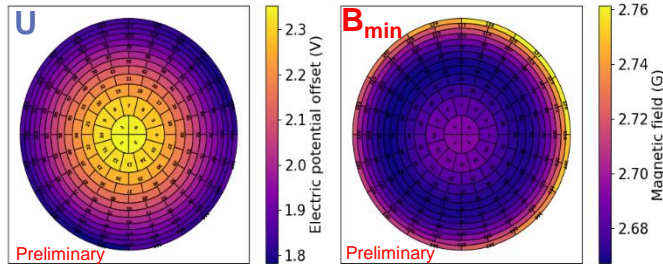
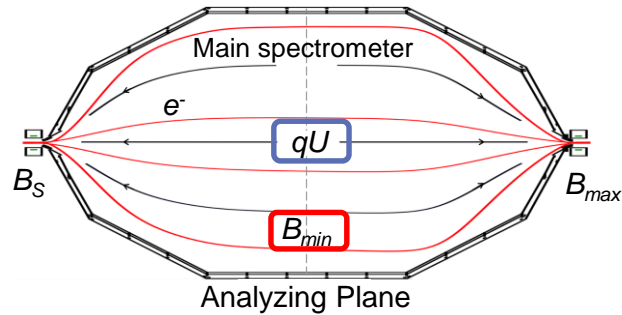


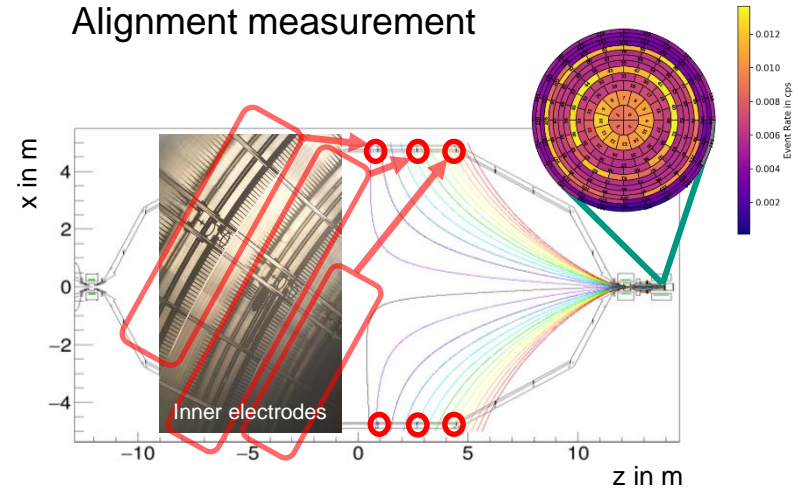
Alignment Studies for the KATRIN experiment

Wonqook Choi and Marco Deffert for the KATRIN collaboration



- Transmission properties of spectrometer affected by alignment dependent inhomogeneities in electric potential and magnetic guiding fields.

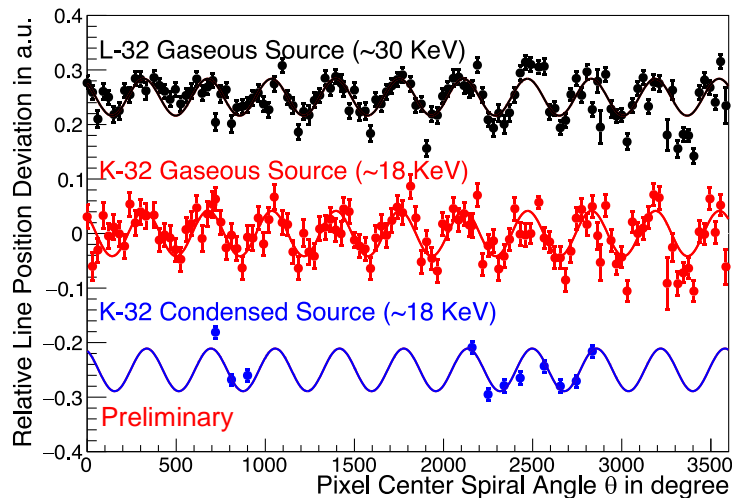
Alignment measurement



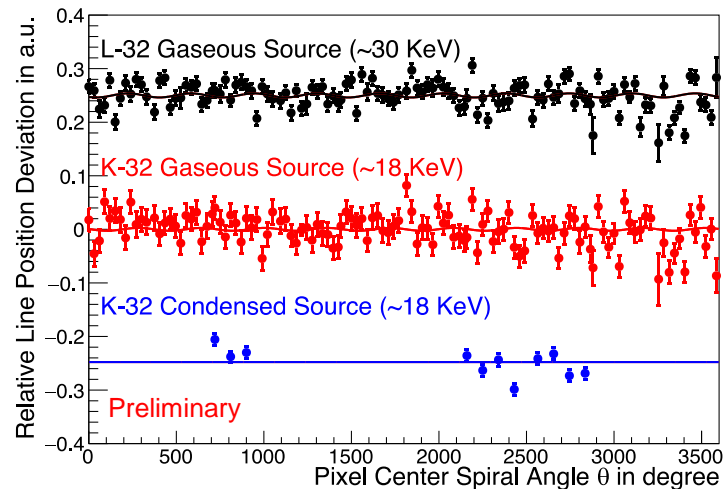
- Inner electrode structure mapped on the detector
- Ring centers → alignment information
- Can be compared to simulation

Alignment correction

Before alignment correction



After alignment correction



- Sinusoidal structure observed during krypton measurement campaign (July 2017).
- Structure disappeared after alignment correction

Monday Session, Poster Wall #8
(Robert-Schumann-Room)