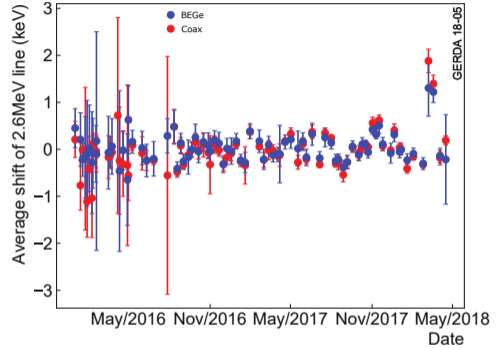
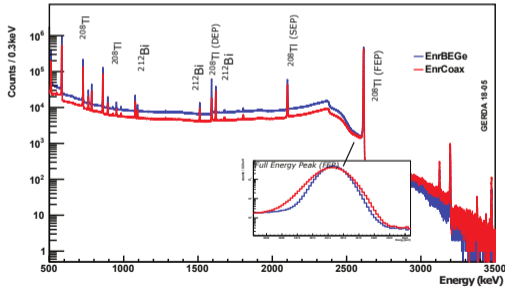


Energy scale calibration

- Determine energy scale and resolution (FWHM)
- Weekly exposure to ^{228}Th sources: $O(100)$ calibrations for the PhaseII



- Monitor detectors stability with gamma line from ^{208}Tl decay at 2.6MeV
- Validate data selection for the $0\nu\beta\beta$ analysis

Effective energy resolution for the $0\nu\beta\beta$ search

- Analyse of the combined calibration data over the experiment run time
- Combine spectra from individual detectors
- Estimate FWHM of the individual peaks: weighted with the exposure sum

$$FWHM^2 = \frac{1}{Mt} \sum_{i=1}^{N_{det}} Mt_i \cdot FWHM_i^2$$

Mt_i - exposure of the detector channel i

Mt - total exposure of the data set

- Extrapolate energy resolution over whole range

$$FWHM(E) = \sqrt{A + B \cdot E}$$

