

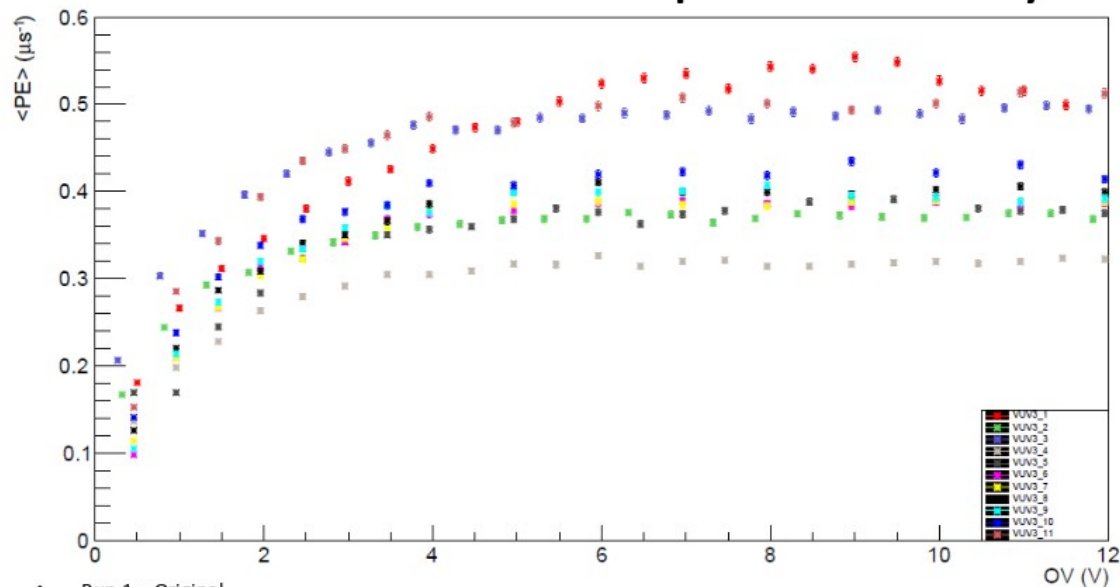
## Reminder



- Noticed that our results were not reproducible.
- Check parameters which could influence our results :
  - Quantity of N2 inside the box
  - Corrected data for over voltage fluctuations
  - The beam splitter
  - The light from the lamp seems not to be constant

# Sources of non reproducibility

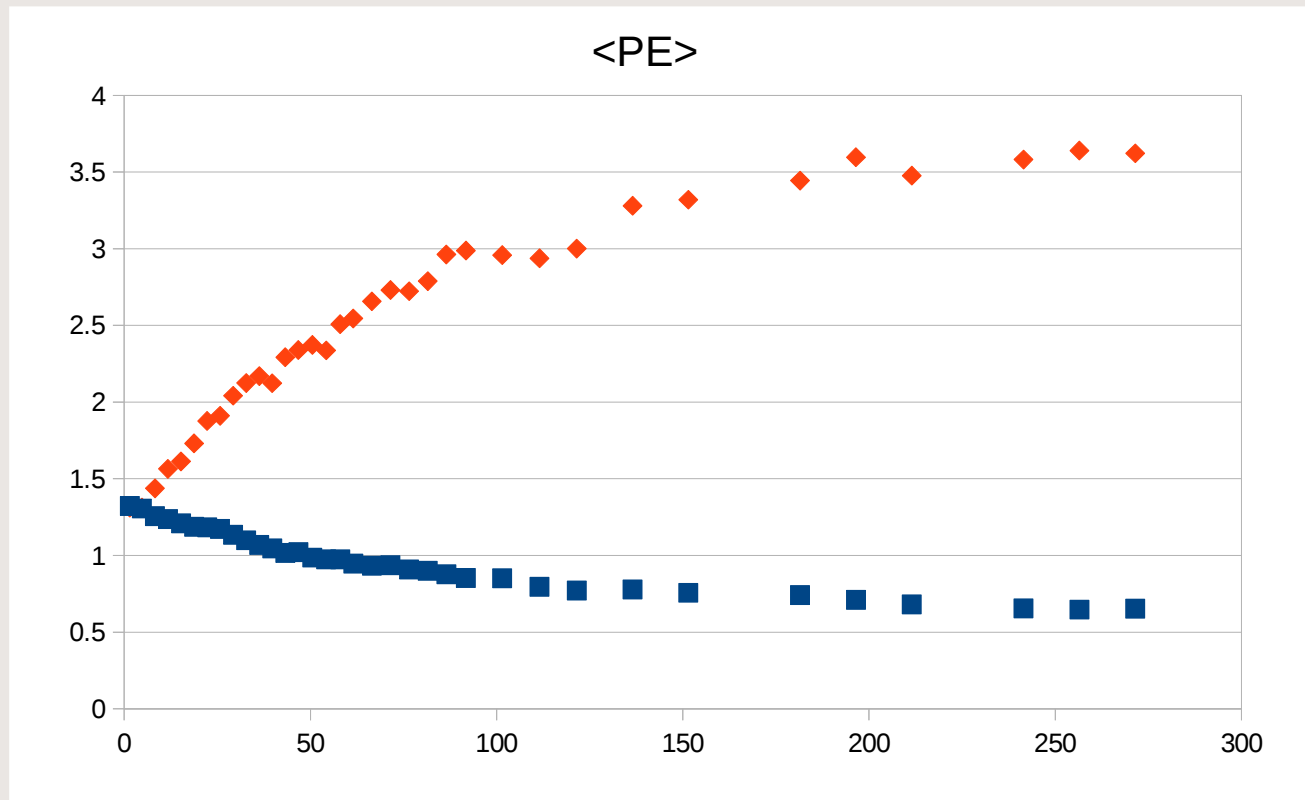
## Results – $\langle PE \rangle$ – Reproducibility



- Run 1 = Original
- Run 2 = Dust on detector
- Run 3 = Dust removed
- Run 4 – 5 = Tests taken one day apart
- Run 6 – 7 = Tests done concurrently
- Run 8 – 9 = Tests done consecutively
- Run 10 = Detector blown to remove any dust
- Run 11 = Detector position changed

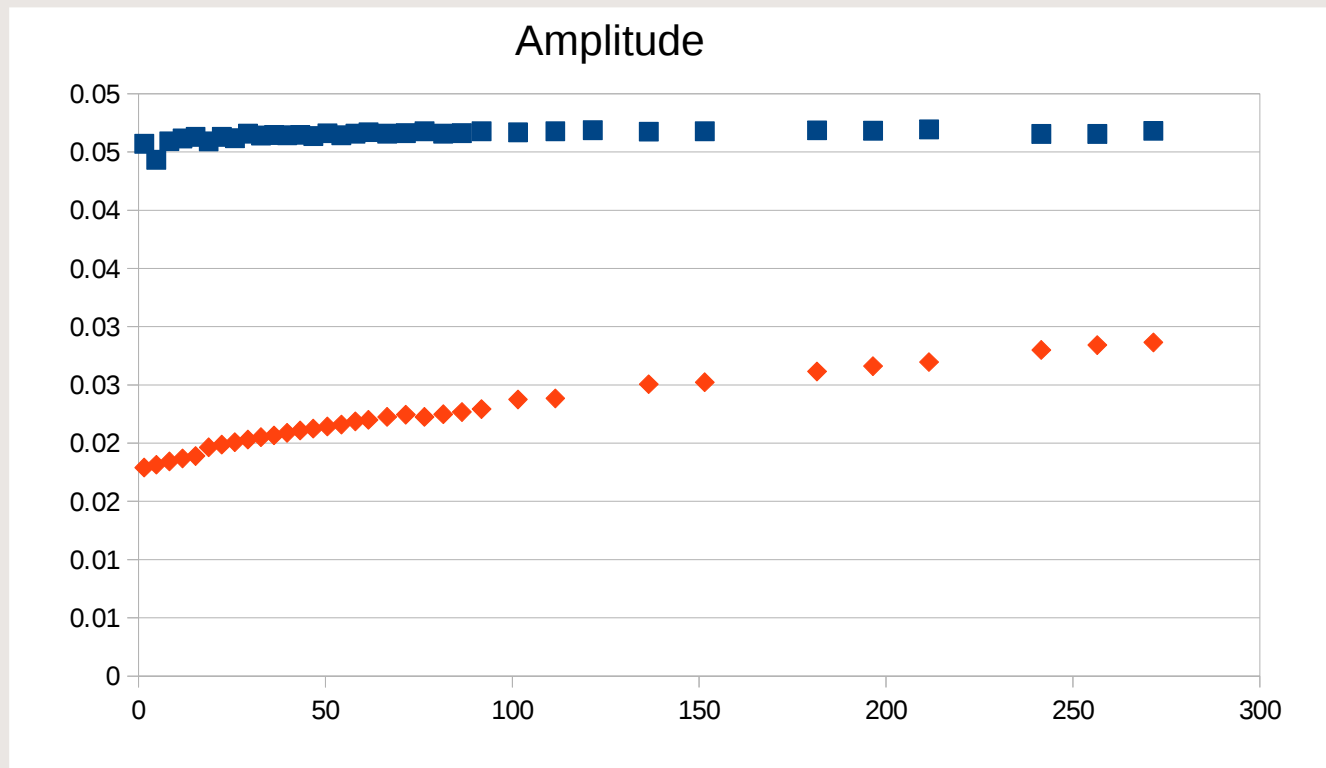
*The flash lamp died*

# *Sources of non reproducibility*



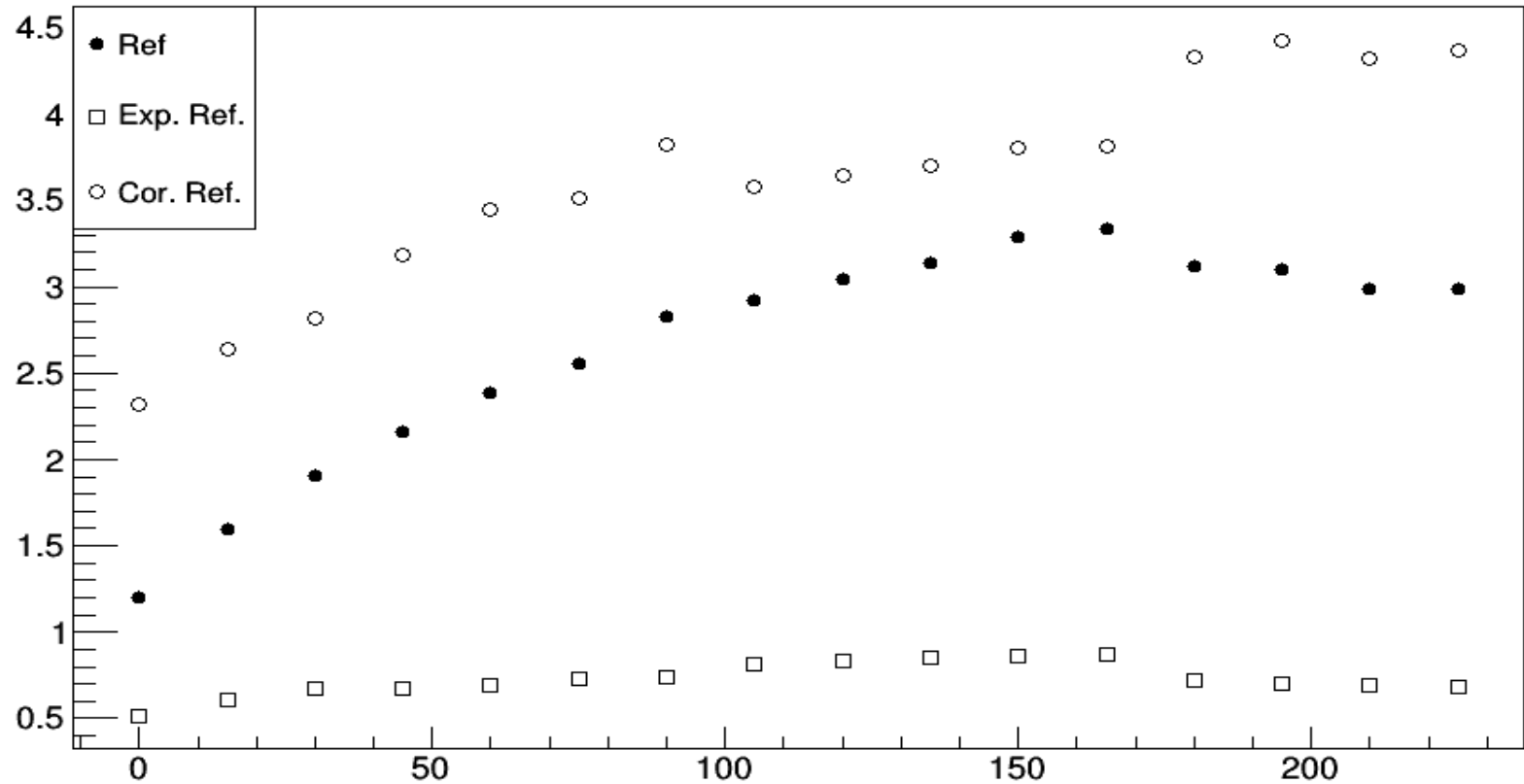
Top (reference)  
Bottom

## *Sources of non reproducibility*

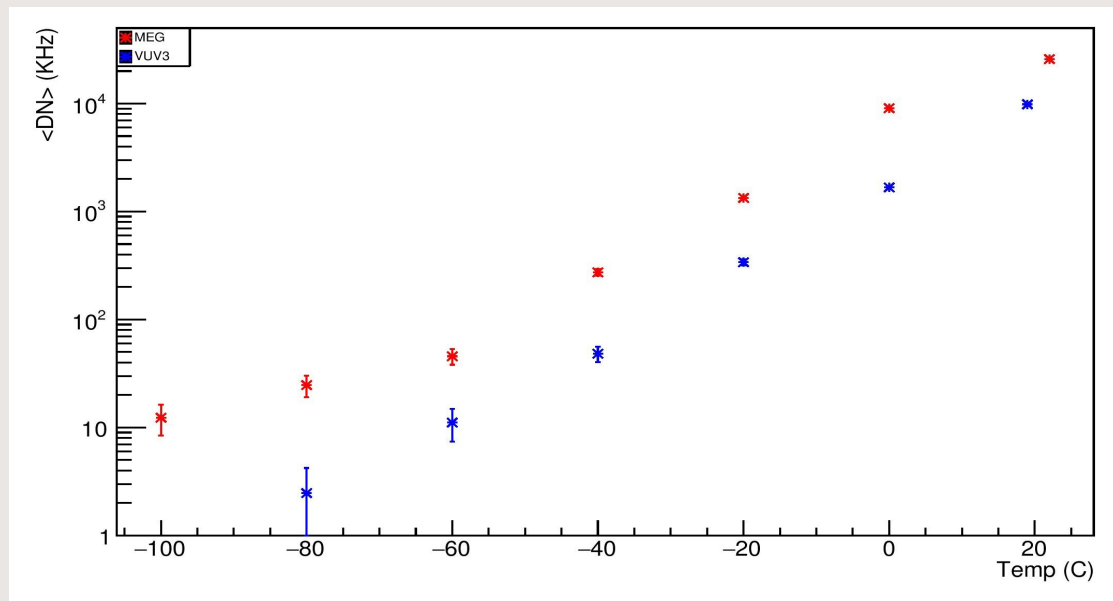


Top (reference)  
Bottom

# Sources of non reproducibility



# *DN vs Temperature for MEG and VUV3*



@ -100 °C , VUV3 , not enough statistic

DN for VUV3 is better than the one for MEG

## Further



- *Process data for after pulse for VUV3 and MEG*
- *Try Lloyd's and Carl's after pulse algorithms to find after pulses*
- *Get a new flash lamp*
- *Keep measuring afterpulse, crosstalk, and dark noise*