

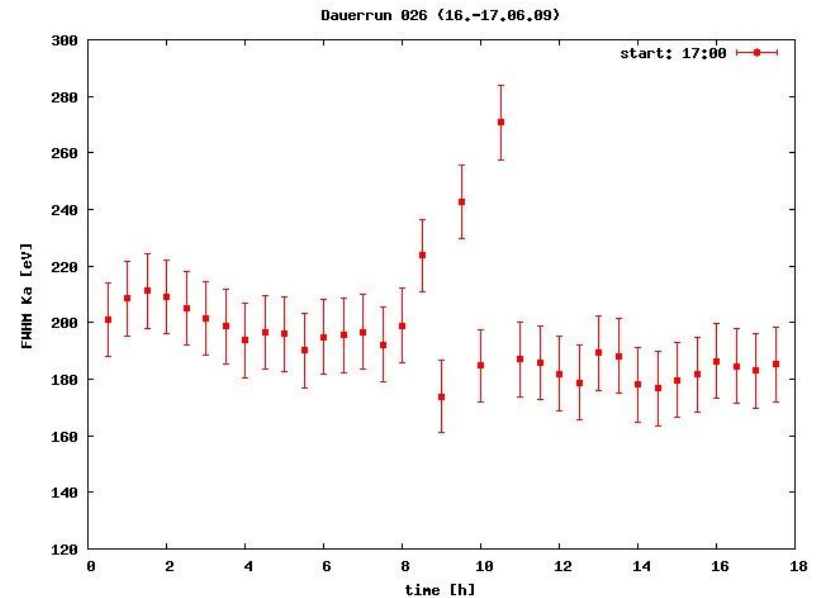
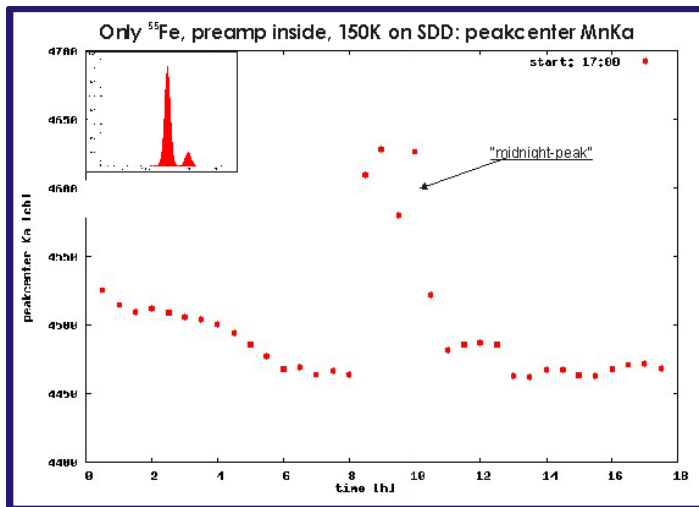
# Status Vienna

August 27<sup>th</sup> 2009

Videoconference

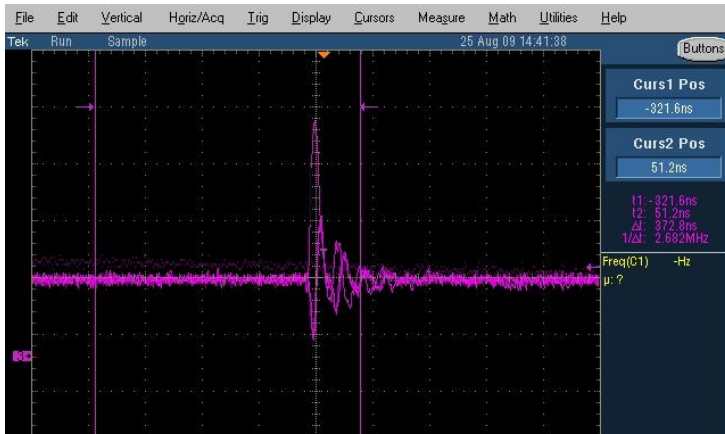
# Status until last week

- Resolution not  $<180\text{eV}$  at  $5.9\text{keV}$
- Peak center not stable (24h-fluctuations)



# Noise source found?

CAEN Amplifier out (**NO INPUT SIGNAL!**):

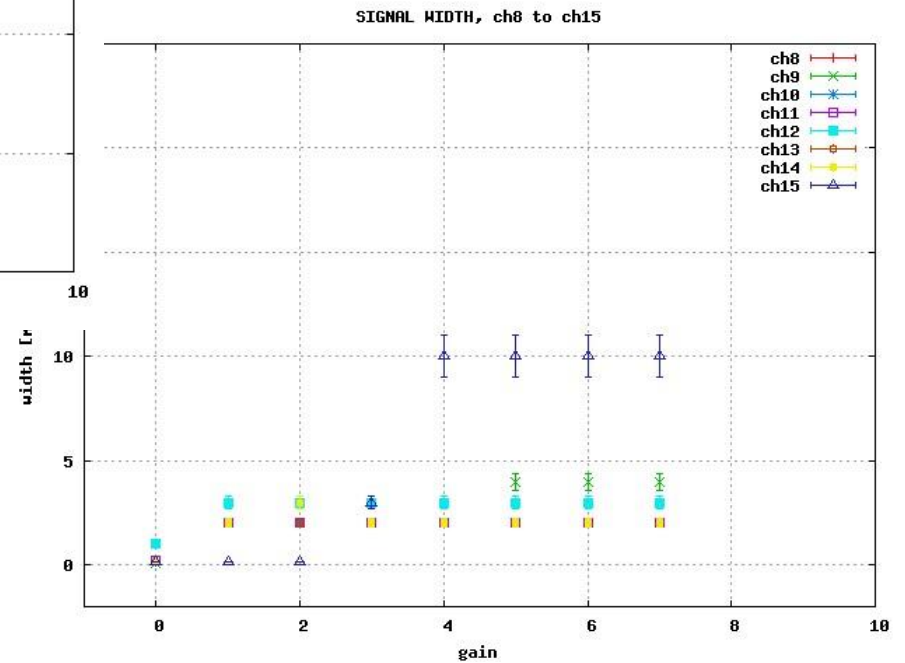
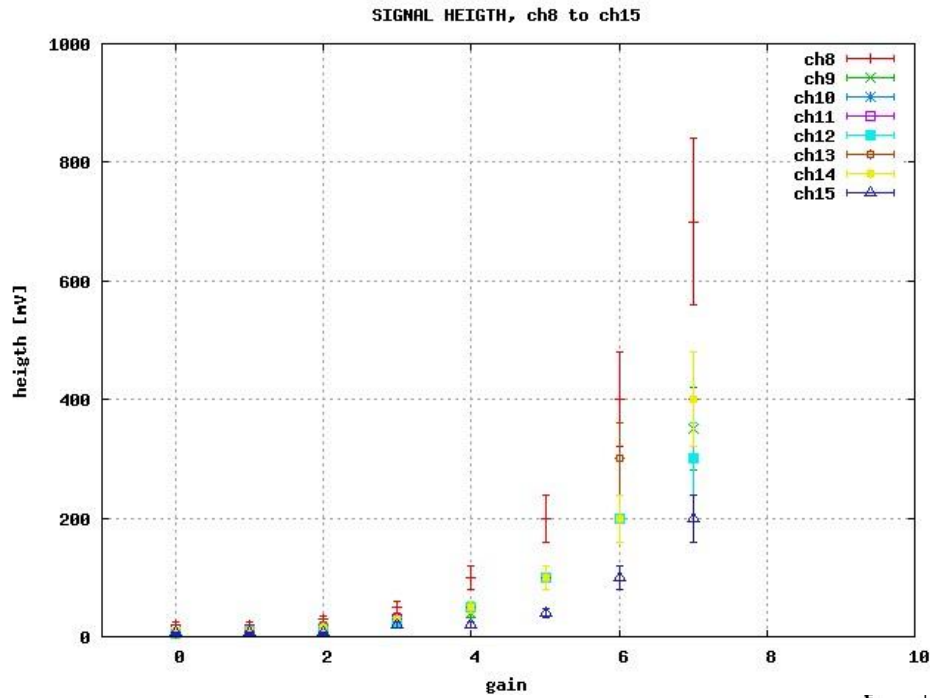


← Gain 0-3

← Gain 4-7



# All channels checked



- Channel of interest: channel 8
- Gain of interest: Gain 6 ->

## **Noise has**

3 $\mu$ s width and 400mV height

## **SDD signal:**

4 $\mu$ s width and ~3V height

# Results and outlook

- Removing the control box of the CAEN amplifier eliminates these noises -> box is the reason for noise?
- Short test measurement with current SDD to verify this theory (taking a spectrum when box is disconnected)
- Repeat stability tests
- Checking the remaining 4 SDDs