Status Vienna

Videoconference Sept. 24th 2009 Status report Barbara Wünschek

2 works should be performed in Japan:

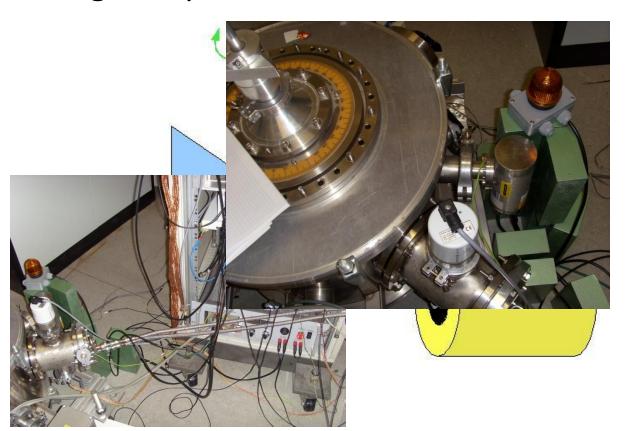
1. Energy linearity testing with sources or foils

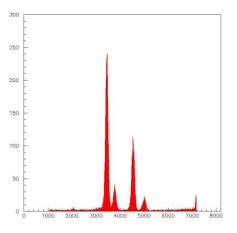
2. Time resolution testing with PIPS

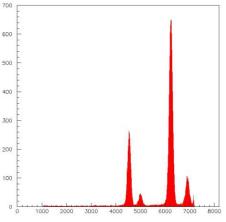
Energy linearity

In Vienna: X-ray tube and foils (at least Ti and Cu)

Bring to Japan?







X-ray tube

Тор





Height: ~15cm

Diameter: ~7cm

Flange: 50

Tungsten wire

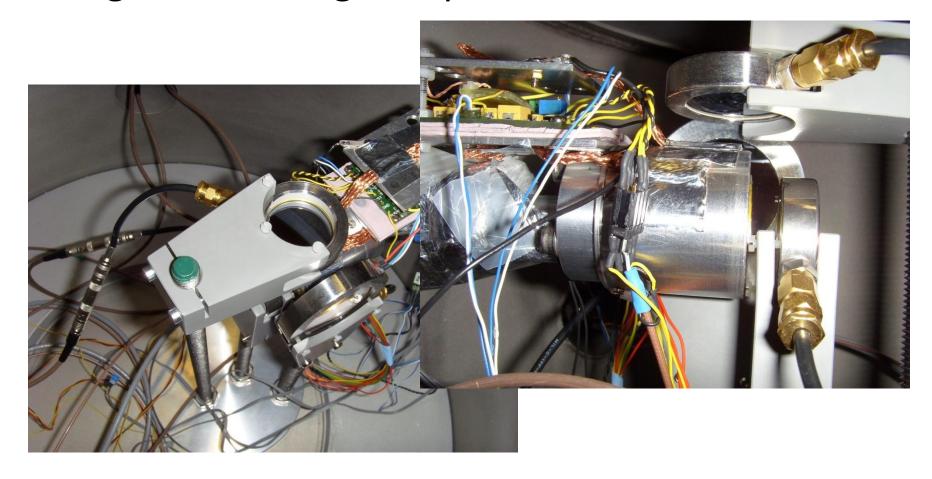
Beryllium window

Bottom



Time resolution

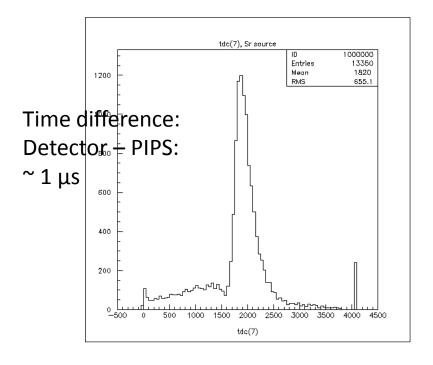
Using PIPS -> bring to Japan?

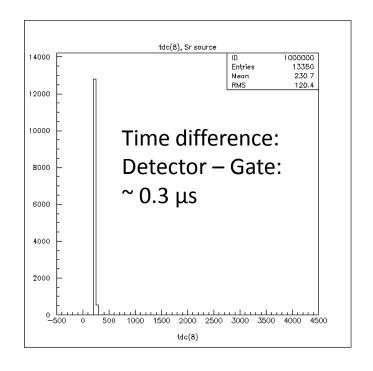


TDC and PIPS

Together with PIPS, the time resolution of the SDD can be measured via a TDC-system.

Data from Amptek (SiLi), Sr source





Current measurements

- Running at the moment evaluation next week
- Temperature dependence
- SUB voltage INSIDE adjustable
- Influence of Control-Box of CAEN amplifier
- Current SUB value: -2V seems to be not good, but preamp (24V) does not work at -6.5V SUB and 150K
- External power supply is in work

outlook

- Housings are ready -> Starting with measurements of remaining 4 SDDs on Monday
- Broken preamp from Japan: temperature sensor destroyed it
- -> Temperature sensors on preamps?
- Bringing x-ray tube and/or PIPS?