

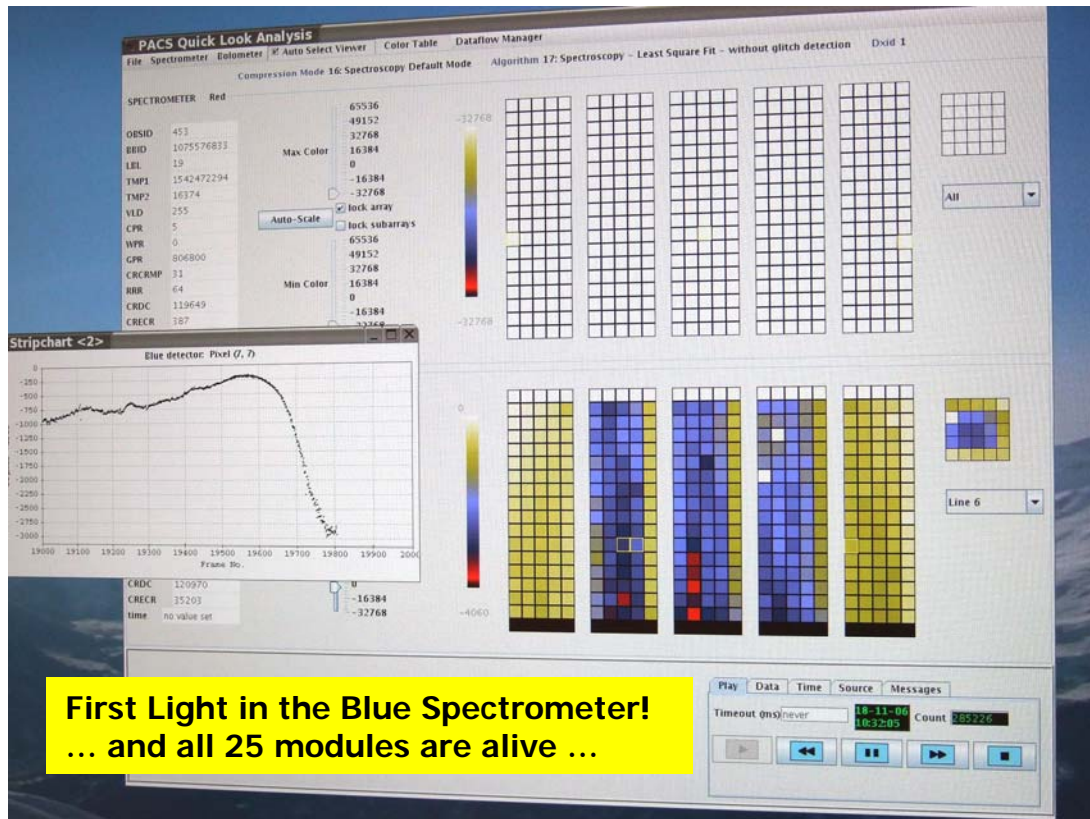


# PACS Newsletter

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## The PACS Picture of the Week



*Fig. 1: The PACS FM has seen first (technical) light on the spectrometers on Friday, November 17, 2006. This was a grating scan over the full wavelength range for the blue detectors. The lower matrix to the right of this QLA screen shot shows the 25 (spatial) x 16 (spectral) blue pixels of the PACS spectrometer, i.e. the 25 simultaneous spectra, and a reconstructed 5x5 field of view image (so all 25 modules are alive!). Also shown is the evolving signal (over time) for one of the blue pixels in a strip chart to the left.*

## Status

We have had a successful 4th week of FM ILT, continuing (mainly) the bolometer tests. On Friday, November 17, **first light** was achieved for the **spectrometer** (see figure 1)! This was a spectrometer grating scan looking at a 30K OGSE Black Body source, simulating a full range SED mode (3 reset intervals, 64 read-outs at each grating position, no chopping). We experienced several electronics and s/w problems, and we have to further investigate and understand some of the results, but we are still very well within our test schedule.

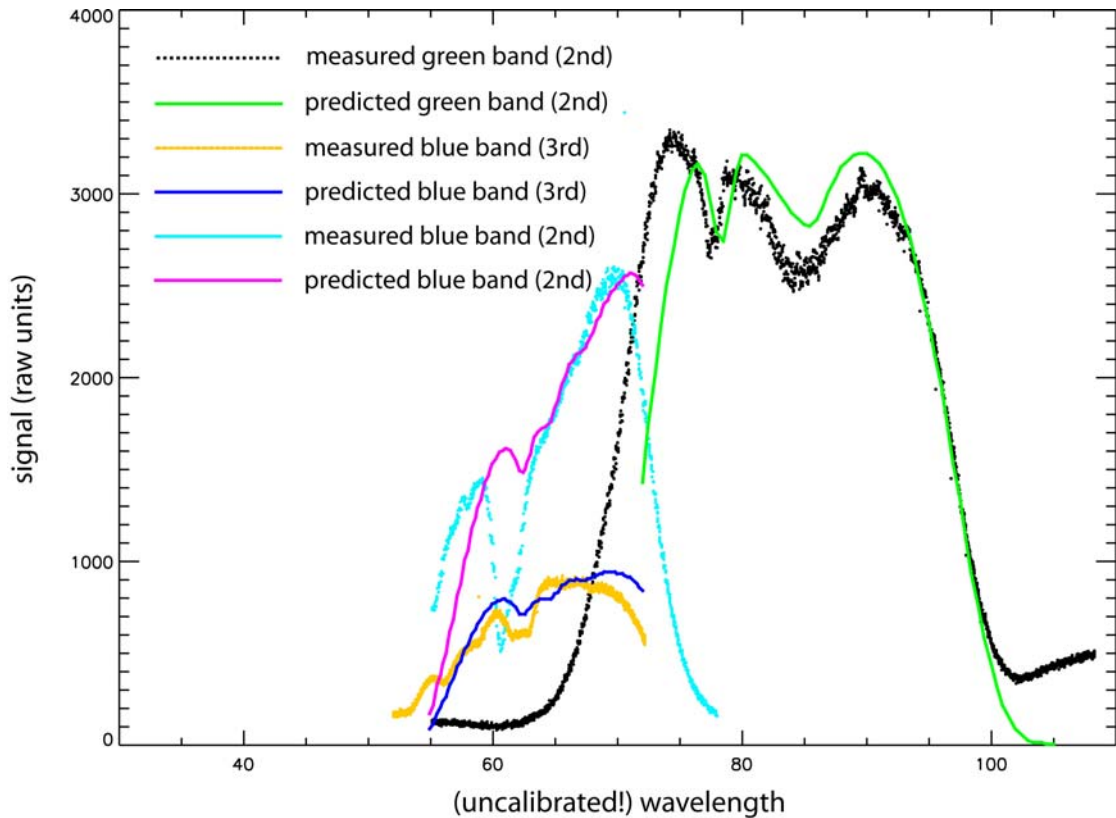


Fig. 2: the measured 3<sup>rd</sup> and 2<sup>nd</sup> order blue spectrometer signal from the full grating scan, compared to a prediction by A. Poglitsch, modelling all involved profiles and responsivities. The wavelength calibration for the observed spectrum is only preliminary. Modulo an absolute normalisation factor (and the wavelength calibration), the relative signal strengths and general profiles look quite similar.

There were three new suggestions for the naming competition of our PACS mascot:

- *Winnie*: Winnie-the-Pooh was named after a polar bear (which actually was a black bear in the London Zoo around 1920). The name has a lot of “win” in it...
- *Nanuk*: this is the Inuit name for polar bear
- *Kinapak*: Kinapak comes from a Canadian Eskimo dialect meaning “works marvels”. A perfect name for the mascot of a truly marvellous instrument.

The deadline for naming suggestions is November 30. After that we will summarise all suggestions and call for a vote.

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