Dear All,

Short summary from the 30th FCAL HWG Meeting:

- Yan presented new study based on Sergej's idea of BeamCal based on sapphire sensors

- the goal was to work out a simplest solution which would allow to make a beam-test in a reasonable time

- the main features of new sapphire based BeamCal design were presented.

As it was discussed, sapphire-based BeamCal would have a number of advantages:

- small price, radiation hardness, small Moliere radius, no need for high(calibration)/low(physics) gain switching in the front-end electronics, sensitivity of detector only in beam direction

Important issues need to be explored:

- possibility of sapphire sensor production and its quality, metalization of electrodes

The idea has been found very attractive. The main question is to find man-power. Groups like TAU (and possibly others) would be

interested to take part in such new development, but without taking whole responsibility. If Sergej was able to lead this

development it would be very favorable and would increase chances of progress. In next weeks situation of Sergej at DESY should

be clarified and we should discuss it further. In the meantime, Sergej, Yan and others will gather more info about sapphire producers and othrer technical details (metalization, ...)

Best Regards,

marek