Some of the activities at Desy

U. Koetz
29.3.07

last year

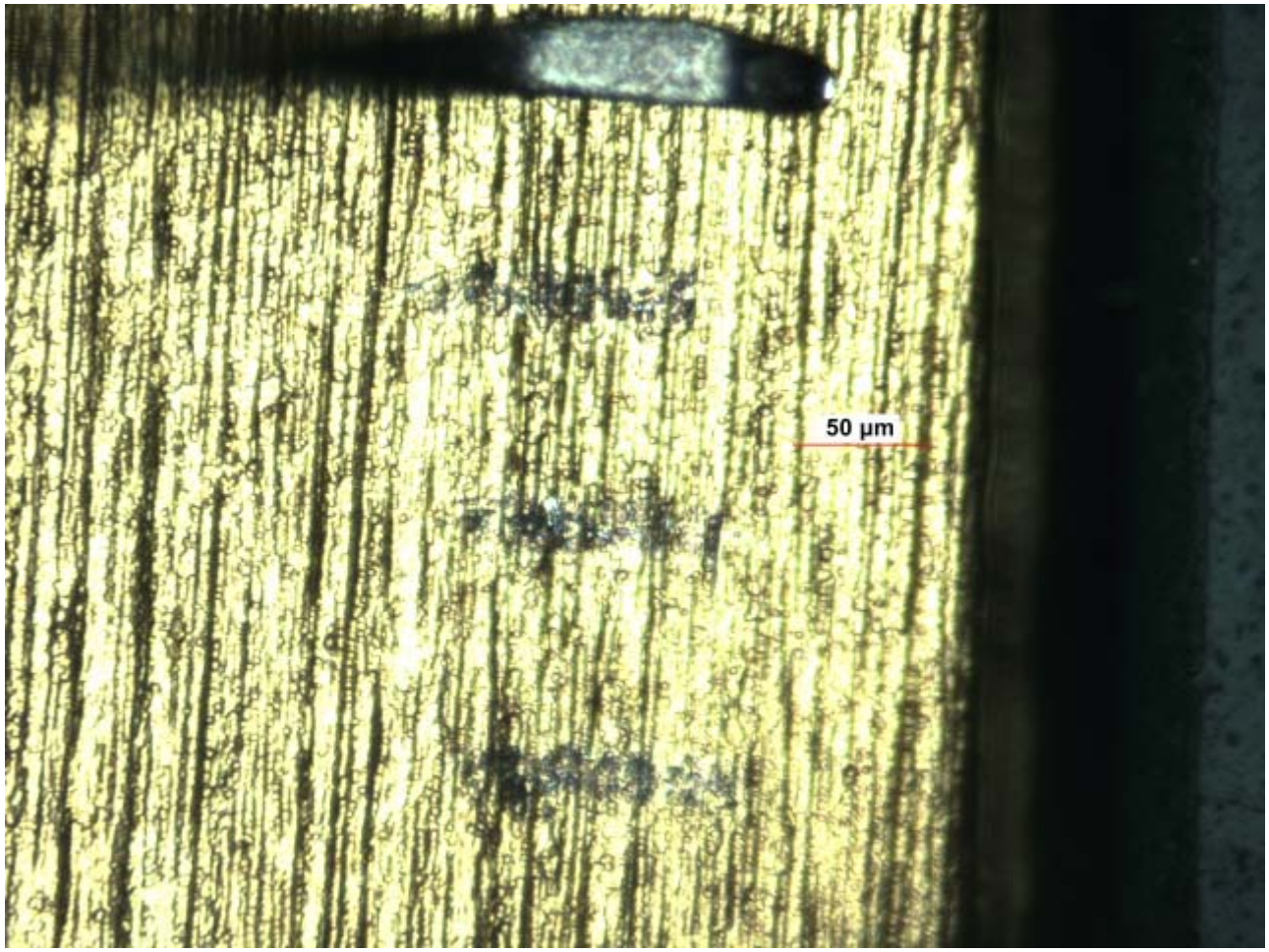
15 sets of pcbs received from Ires

15 * (Aux board + sensor board MimoTel + sensor board Mimosa18)

finally first 5 boards completed beginning of February

5 sets tested with some problems during testing (selfmade?)

boards back to Ires ⟶ problems with bonding



bonds could be lifted off without braking

problems with Gold surface

surface to be reworked

Production of remaining boards has started this week

with loading of aux boards first, testing follows

sensor boards will follow after reworking of surface

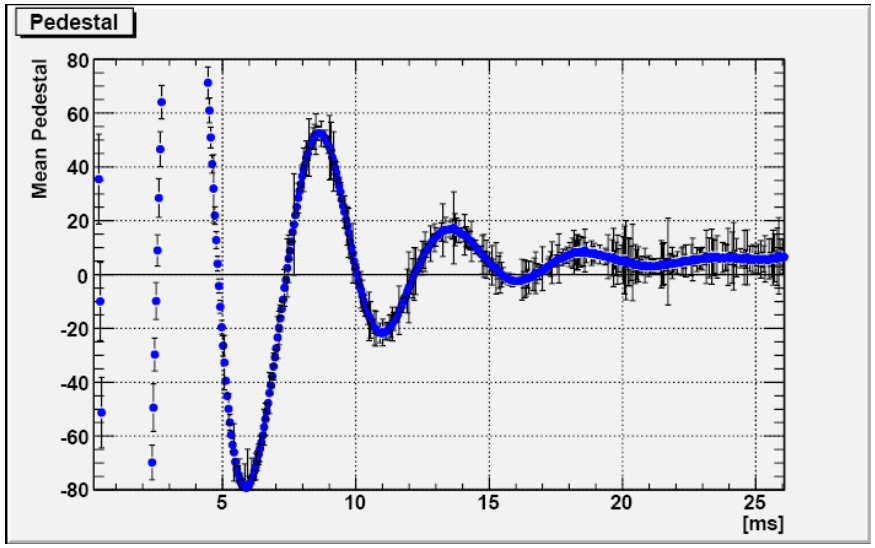
received 1 set (aux + sensor mimoTel)
1 set (aux + Mimosa18) 2 weeks ago

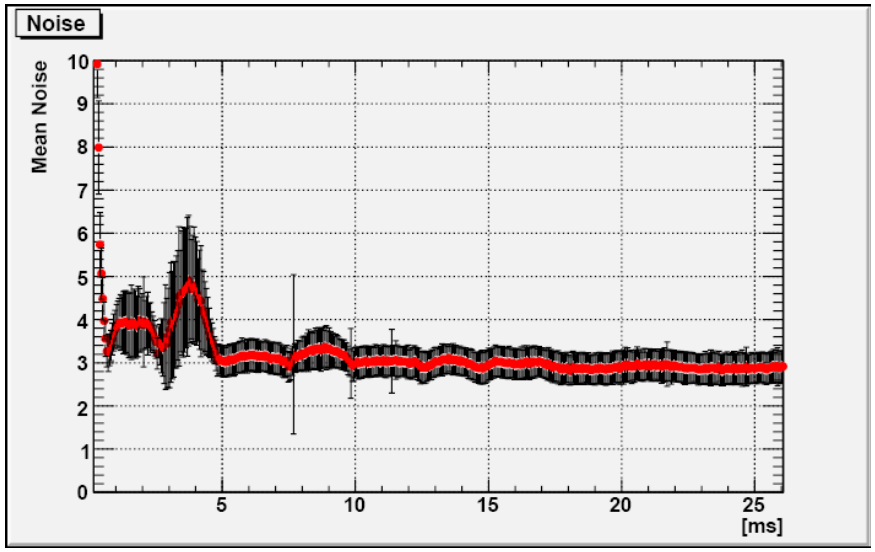
Ingrid will report on this

last Friday 5 sensor boards with MimoTel received

Qualifying of sensors starts next week

Jola Sztuk,UK



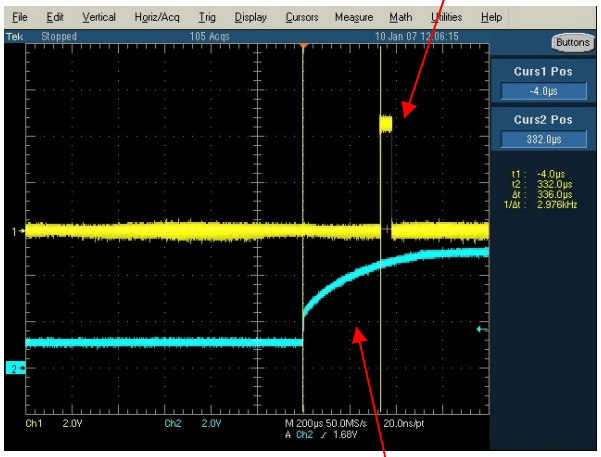


Power pulsing

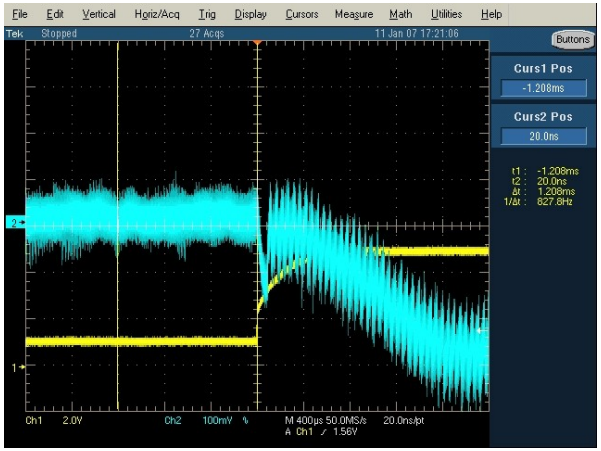
Fe55 run

pulsing: 0.34 msec before row marker

row marker



DC power



analog signal

Conclusion

power-pulsing studies for turning on-off the largest consumer of the
sensor the output amplifiers

power-on creates large pedestal variations

but the system behaves very reproducible, therefore even large pedestals can be subtracted out precisely

Therefore

data show that already after about 1.2 msec after power-on

noise levels reached which have been measured for constant power;

even before that Fe55 signal are clearly visible

noise ~ 29 electrons

If one takes these numbers:

only 1.2 msec before next bunch train power needs to be turned on

197 msec out 199 msec power can be turned off

Report in preparation