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Milestones and deliverables VFCAL

Silicon sensor production: (prototype)	mid 2009
Laser Positioning System:	prototype available end 2008
Sensor test facilities ready:	end 2008
readout electronics ready:	end 2008
Test of readout electronics:	mid 2009

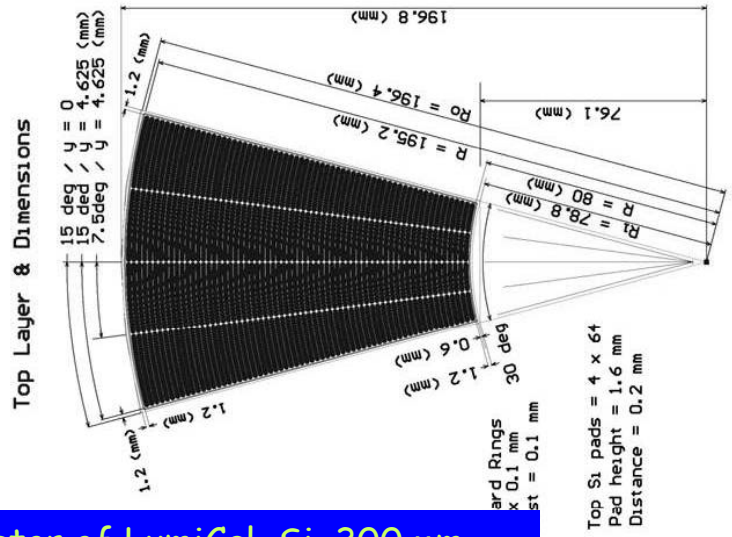
Silicon sensor design and production:

MC design studies are finished

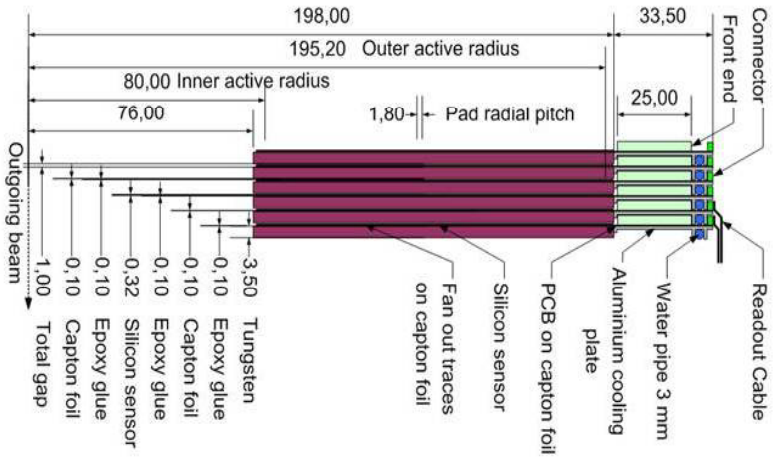
Masks are produced (and paid)

Sensor order will go out (joint effort by INPPAS, DESY, Tel Aviv)

Fanout is designed



Sector of LumiCal, Si, 300 μm

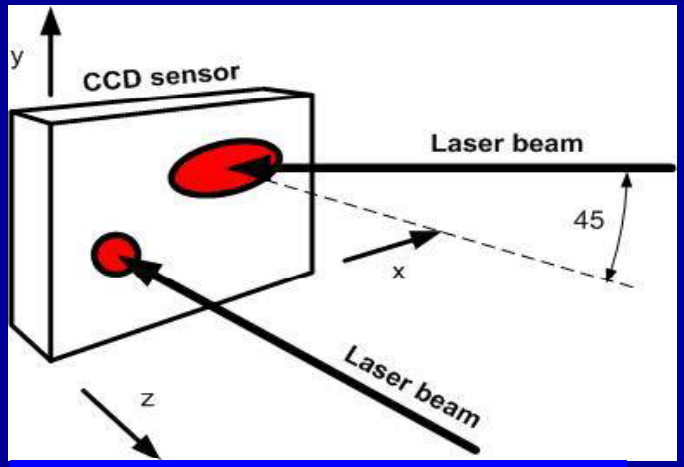


Structure of the fan-out

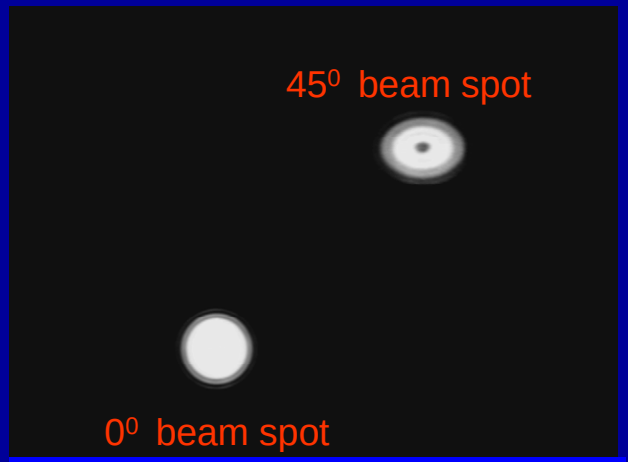
Laser positioning system: A lab, testbench is built, several improvements in 2008

- new semiconductor laser
- new focusing optics
- thermal stability studies, improvements
- miniaturized CCD sensors in preparation, installation before end 2008
- ongoing simulations of the opto-geometrical system

EUDET report end 2008



Principle of position monitoring



Laser spots as measured by a CCD sensor

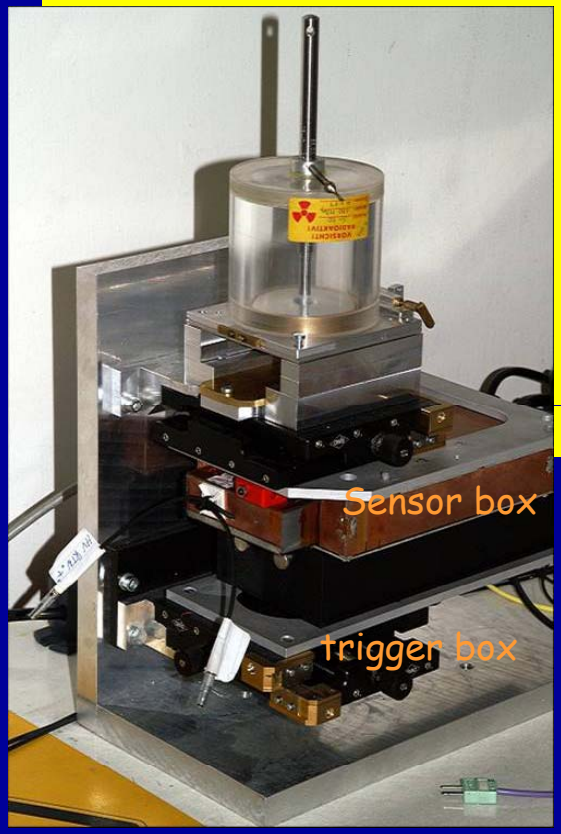
Sensor test facilities: Automatized test facility for IV characteristics of sensors (under nitrogen atmosphere)

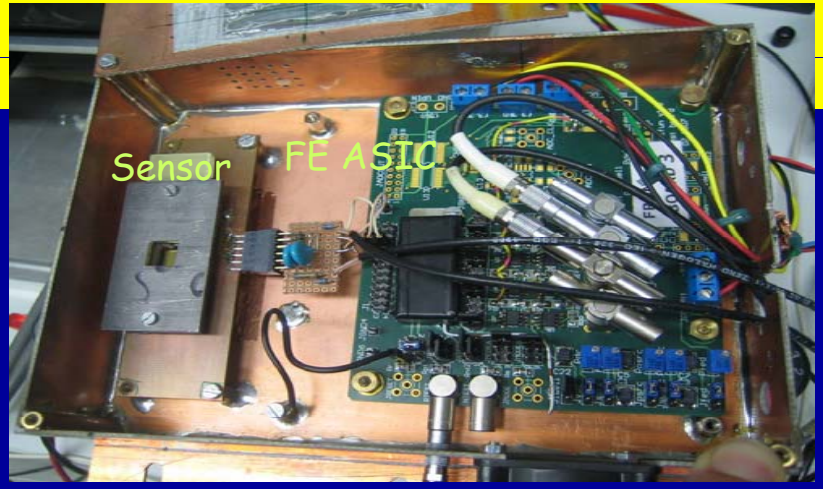
two test benches for sensor studies with mips from ^{90}Sr.

test facility (mechnics, electronics, DAQ) for beam-tests

test-benchs for FE electronics (Cracow, DESY)

installation and upgrade of prob-stations (DESY, Tel Aviv)

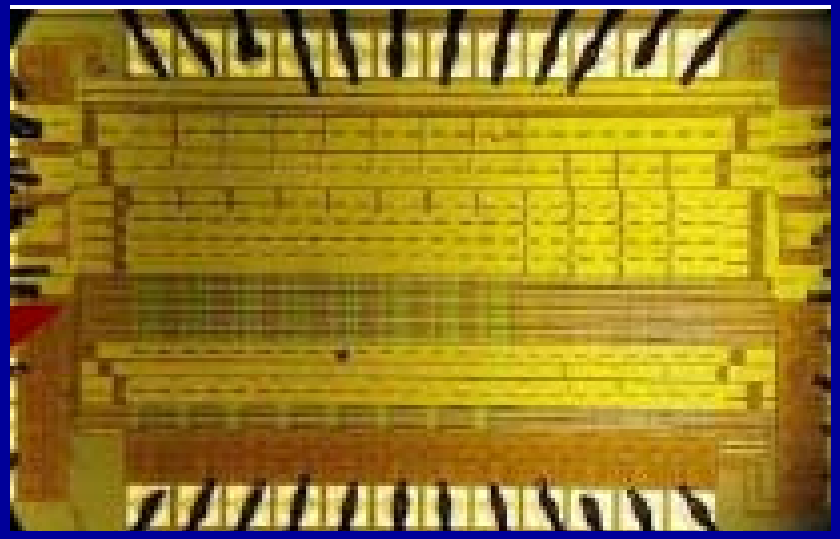




FE ASICS: first design finished, prototypes of preamp& shaper and separate ADC's are produced, just under test

submission of a (more complete) ADC these days

FE ASIC prototype, bonded to the test board



ADC (core) prototype