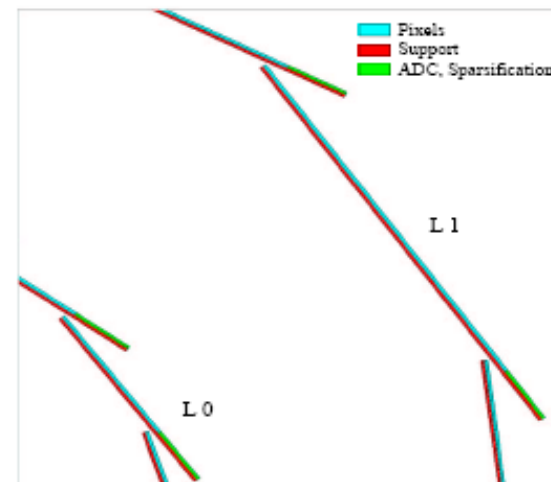
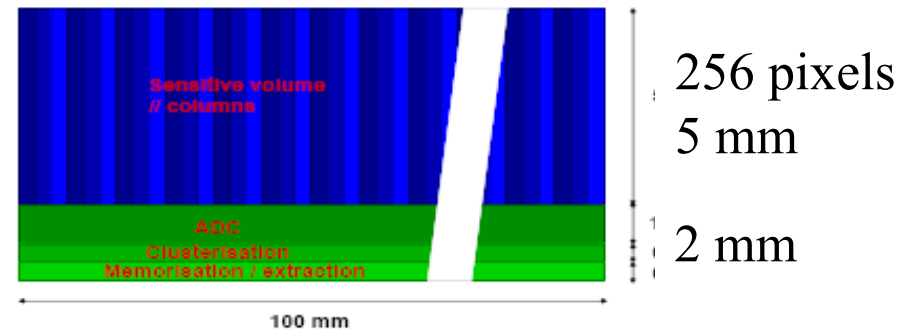


Comments from DESY PRC meeting – MAPS

- Presentation by Marc Winter (Strasbourg).
- Constraints from beamstrahlung
- Layer 1: 5 hits/ cm² and BC with $B = 4T$, $\sqrt{s} = 500$ GeV.
- Corresponds to $\sim 0.3\%$ occupancy for LCFI assuming only one pixel hit, Marc suggested 0.9% for MAPS.
- Implies $\sim 2 \times 10^{12}$ e (10 MeV) per cm² p.a.
- Marc “converts” to no. of 1 MeV equivalent neutrons p.a. of 7×10^{10} .
- C.f. neutron dose of $< 1 \times 10^9$ 1 MeV equivalent n p.a.

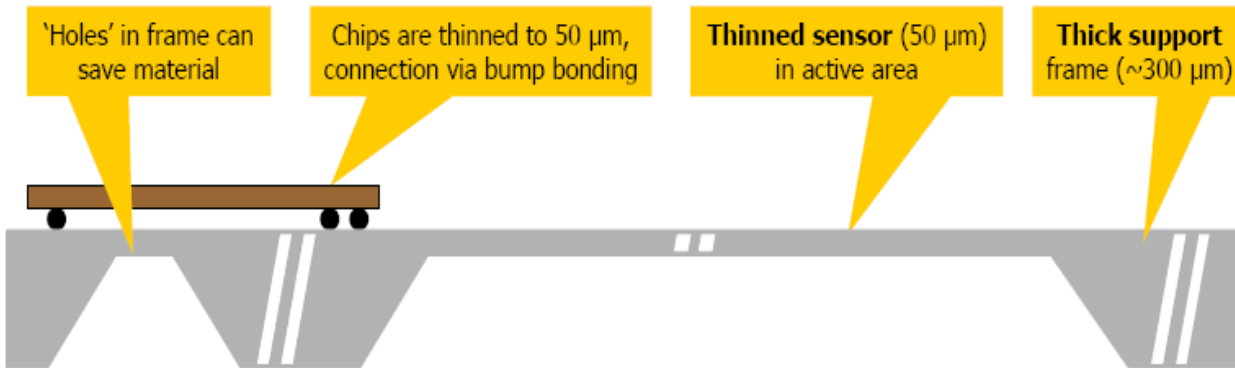
- Readout MAPS in 25 μ s, factor two faster than TESLA proposal.



Comments from DESY PRC meeting – DEPFET

- Presentation by Peter (Mannheim).
- 512 x 4096 pixels of 25 x 25 μm^2 .
- Readout from each end, 10 frames per train, i.e. 10 x 2048 rows in 1 ms (20 MHz).
- Expect 10 tracks/ mm^2 /“event”.

■ Ladder construction:

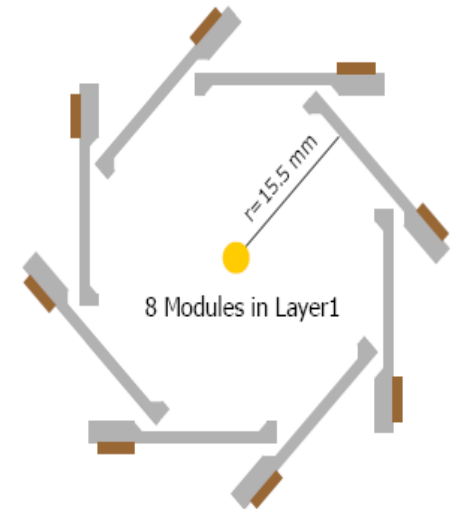


Cross section of a module

■ Detector layer:

Estimation of material budget:

- pixel area: 13x100 mm^2 , 50 μm : 0.05% X_0
- steering chips: 2x100 mm^2 , 50 μm : 0.01% X_0
- frame w. holes: 4x100 mm^2 , 50% of 300 μm : 0.05% X_0
- total: **0.11% X_0**



Review of LCFI

- Current funding situation explained to referees (Karl-Tasso Knoepfle, Jan Timmermans).
- Official recommendations yet to be received, but tenor of remarks was:
 - ◆ LCFI congratulated on the progress made in sensor development and physics studies since the last review (May 2003).
 - ◆ Delays w.r.t. initial programme noted (fewer generations of CPCCD tested than hoped).
 - ◆ Need for additional manpower to realise full proposed programme noted.
- ◆ Recommended that the LCFI programme be supported as far as funds permit.
- International collaboration encouraged:
 - ◆ Test beams, EUDET (LCFI represented by Bristol).
 - ◆ Uli Katz and Tatsiana Klimkovich working at TTF (contact made with Tatsiana).
 - ◆ Mechanical work (e.g. MAPS mechanical/cooling studies at DESY)?
 - ◆ MAPS like detectors.