

- Plan
 - Physic Prototype status.
 - Matrices production (wafer)
 - Assembly to DESY
 - CERN Beam test

 - Guard ring studies (« Square events »)



ECAL sensors - Silicon matrices

Jean-Charles VANEL

19/04/2007

Physic Prototype status → **Matrices production (wafer)**

- Central part completed
- The low part stays to be realized (that is $30 \times 3 =$ wafers 90)
- Czech production of 100 wafers → January : 34 wafers, and February : 41 wafers.
 - January : 34 → 20 OK
 - February : 41 → 4 OK !!

On 100 wafers → 75 produced matrices → Only 24 OK (3/15 slabs)

- Send back 40 matrices for surface reprocessing in March → 28 were reprocessed and come back to EP on 02/04/2007.
Good results : **22/28 OK**
- Production of 125 supplementary wafers for the beginning of May !

Small hope to have "finally" the complete proto for test at CERN

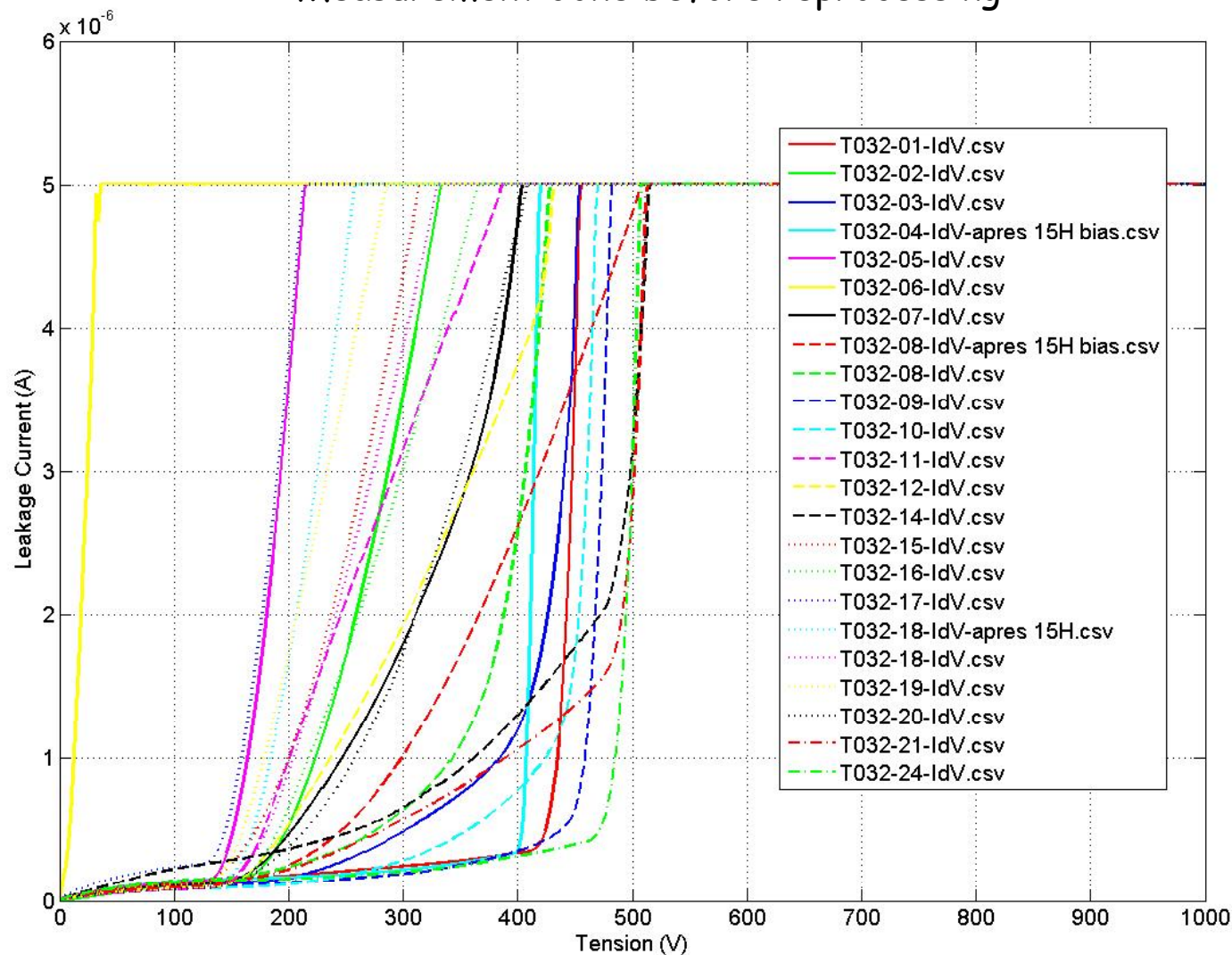


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Measurement done before reprocessing





Physic prototype → **Assembly to DESY**

- 24, 25 et 26 April (Marcel, Akli and me...) → **week 17 !**
- Return Slabs from EP to DESY

Physic prototype → **CERN test beam**

- Assembly to be foreseen
 - Who ?
 - When →
 - week 23: transport to CERN
 - week 24: mechanical installation
 - week 25, 26 and half of 27: electronics commissioning and parasitic muon calibration
 - week 27-29: first main user period
 - week 29-32: three weeks of analysis, debug and repair
 - week 32-34: second main user period

Guard ring study

- new guard ring design will be tested on "pizza" mask containing 4 small test sensors
- each having area of 3x3cm, with different guard ring design
- It is essential to have opened passivation above the guard rings in order to contact

