

# Questions toward the sensor characterization setup

10/11/2018

Since I **personally** do not grasp what we (will) have or do not have yet, I just list up some scattered questions in this slide.

[ Measurements (not all) we can assume ]

-- I-V curve

-- C-V curve

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-- Sensor noise , temperature dependence ?

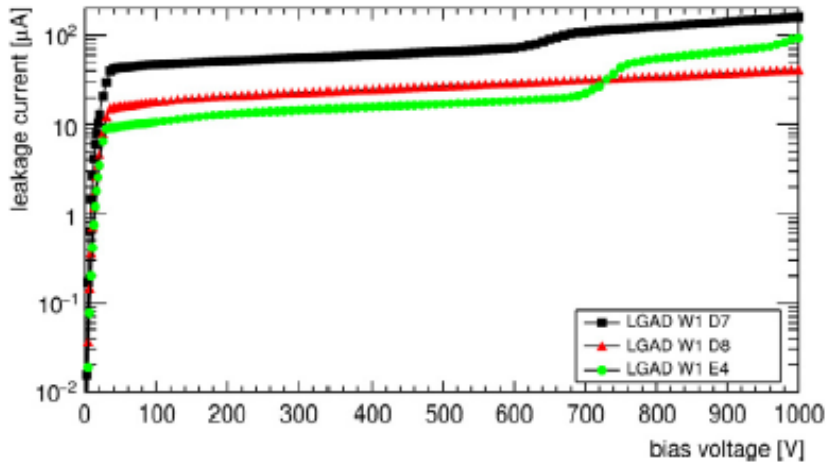
-- Signal (by sources or laser ? )

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-- Data acquisition

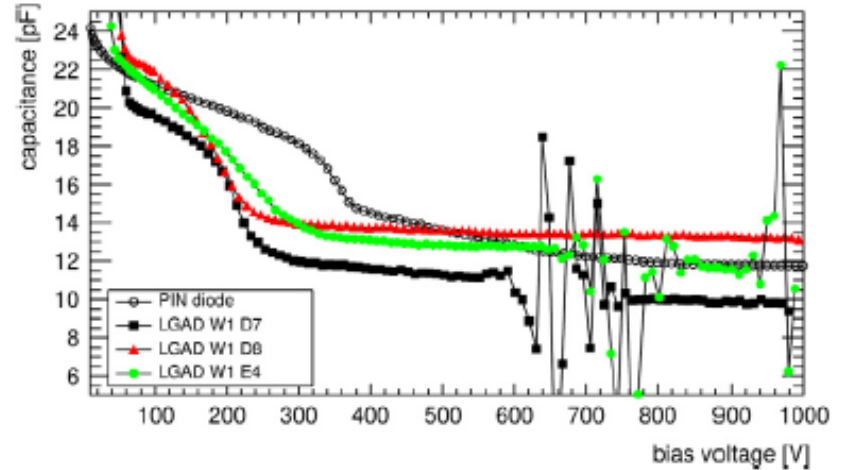
-- timing resolution

← let it open today

# IV/CV measurement



(a) IV measurement.



(b) CV measurement.

From C. Gallrapp et al., NIMA 875 (2017) 27-34

1. Can we separately measure the contribution from the main body (bulk) and guard-ring ? <-- depending on the sensor(pad) layout.
2. As the right plot, the order of current can vary several magnitudes. --> what would be the range of our scope ?

# Sensor Noise

1. Which equipment we will use ? ( at the very beginning oscilloscope ? )

-- for this, we might need “signal” . TCT measurements ?

-- at any case, we might need kind of a readout chain for that.

-- sensor mount ?

2. Its temperature dependence ?

# Others

-- Do we have a common page for equipment / result / plots ?