

## IV+CV Results for HGCal Proto A Sensors

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CMS HGCal Sensor Testing Weekly Meeting



# Outline

- 1 Introduction
- 2 IV Results
- 3 CV Results
- 4 Long Term IV

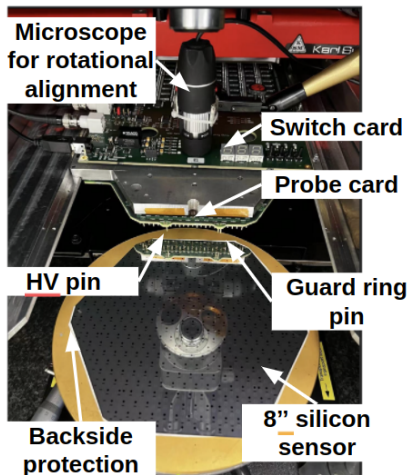


# Sensor List: High Density and Low Density

- Campaigns: Fall2021\_PM8, EndOf2021\_PM8, LongtermIV\_ALPS\_2021, Winter2022\_ALPS



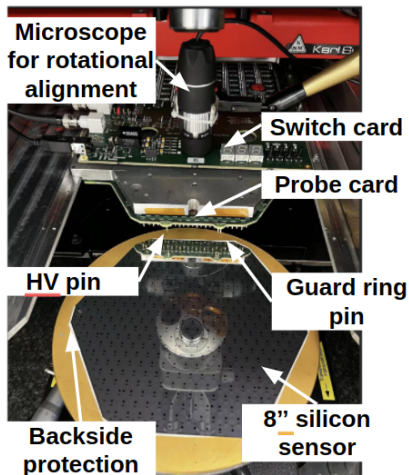
# Machine Setup



- Measurement at room temperature
- Humidity: 40% – 50%
- Voltage up to **-850V**
- Voltage provided through the HV pin to the backside



# Sensor List 120 $\mu\text{m}$



- Measurement at room temperature
- Humidity: 40% – 50%
- Voltage up to -850V
- Voltage provided through the HV pin to the backside



# Measurement Workflow



# Sensor List 120 $\mu\text{m}$

channel	1tau1l	1tau2l	2tauXL	1tau1l	2tau0l
expected significance	0.5944	0.4261	0.1517	0.02629	0.009596

Table: Expected significance of all channels



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# Backup

backup



# List of ProtoA Sensors

