

Current status of the strip sensors



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PANDA CM
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Sensor deliveries

- Sensors for barrel #3 (= 4 batches = 100 sensors) delivered by CiS and QA checked (2015/16)
- First lots were rejected almost entirely due to problems with wafer material
- First part of barrel #4 delivered in 2018/19 (1 batch=25 sensors)
- Remainder for barrel #4 ordered in 12/2020, delivery expected in Juli/August

Sensor QA - Criteria

Complete survey for:

- $V_{bd} > 180V$
- Max 5 pinholes on p side
- No pinholes on n-side

Sample-wise measurements of

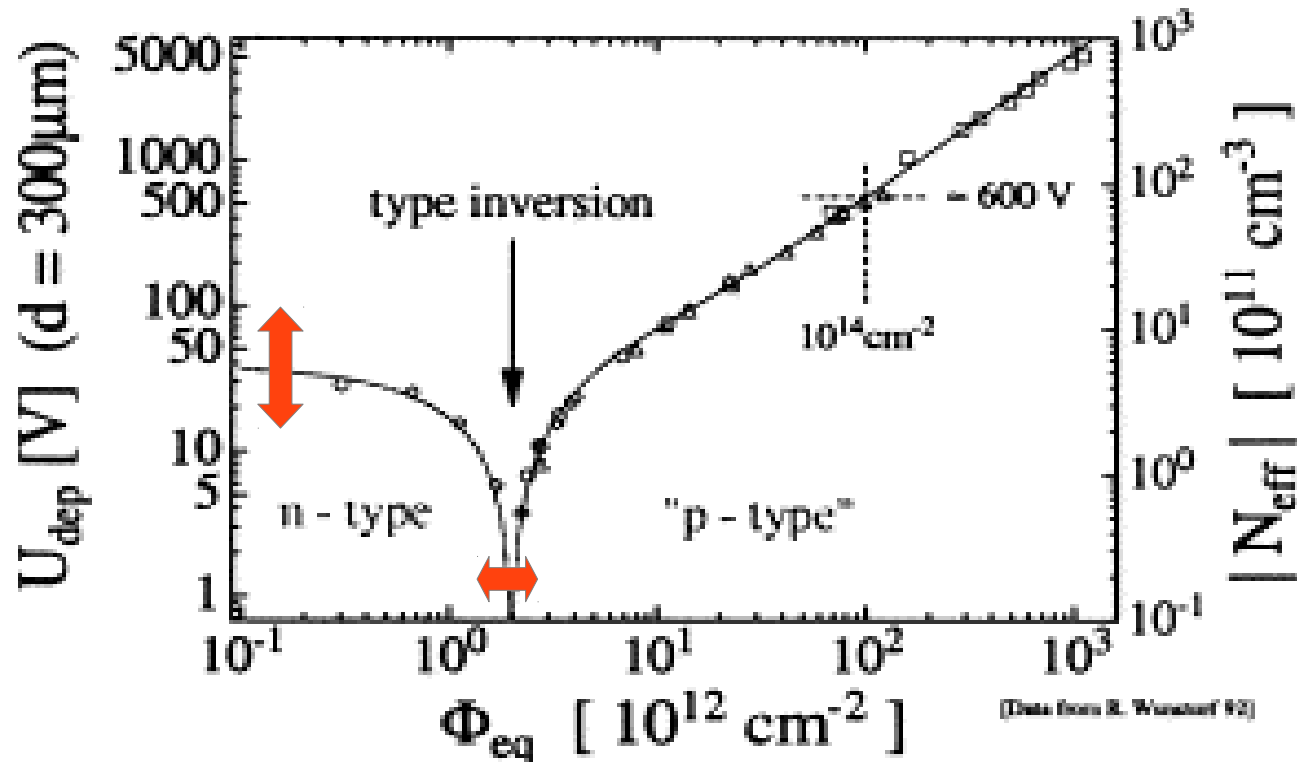
- PolySi resistance
- Capacitances: bulk, interstrip, stray, bias-bulk etc.

Sensor QA

Production	delivered sensors		accepted sensors		Yield (%)	
	S1	S2	S1	S2	S1	S2
2016	120	118	38	57	32	48
2017	72	73	52	51	72	70
2018/19	33	30	25	25	76	83
2020/21	100	100	Acceptance tests ongoing			
Total	325	321	115	133	35	41
	required:		184	64		

From 2018/19 on delivered sensors are fine. Problems with wafer material gone.

Sensor QA



For latest production the constraint on resistivity had to be relaxed by 10%. This impacts the point of type inversion slightly.

Sensor QA

