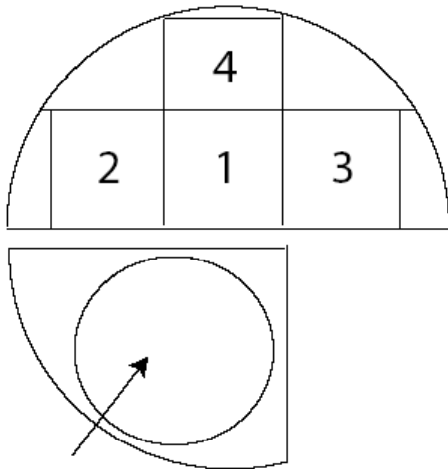


Ioffe Samples

- Measure one more sample from 7-483.
- X-ray diffraction analysis
- Polarization calibration using SVT GaAsP/GaAs superlattices.

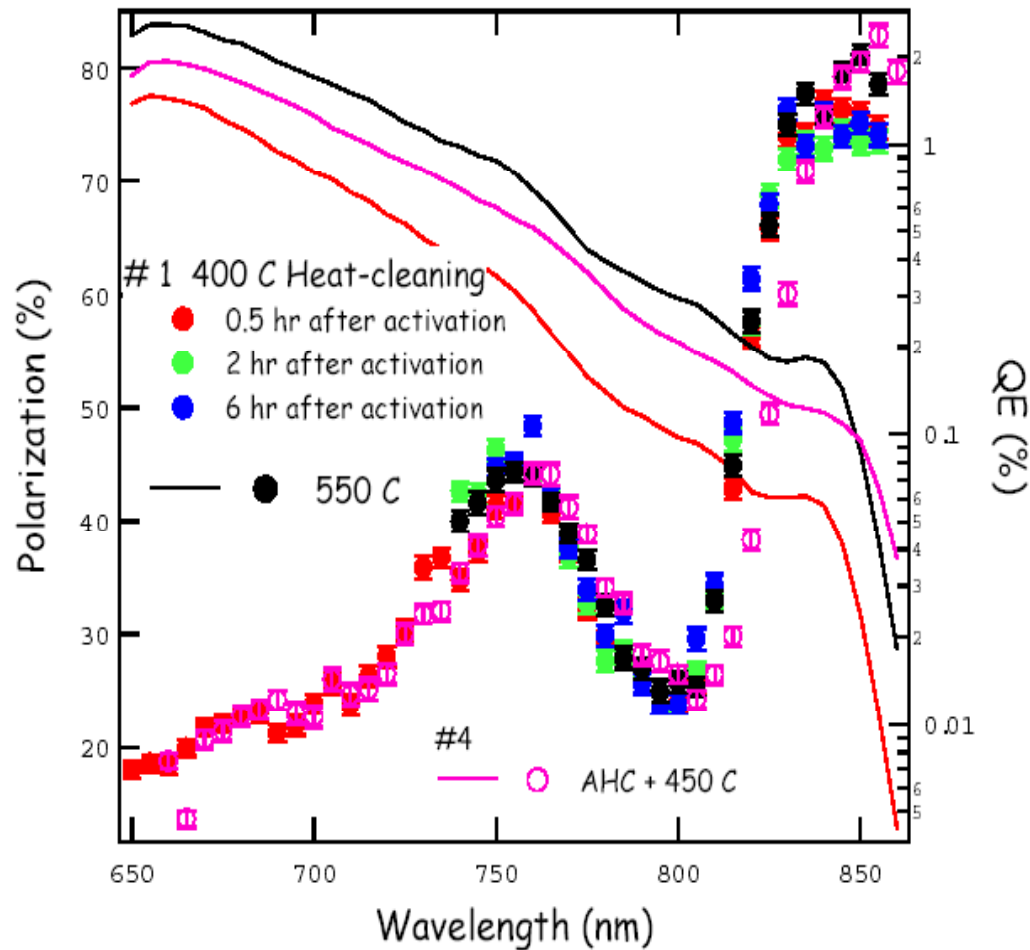
CTS measurements



SLC size cathode for
charge limit measurement

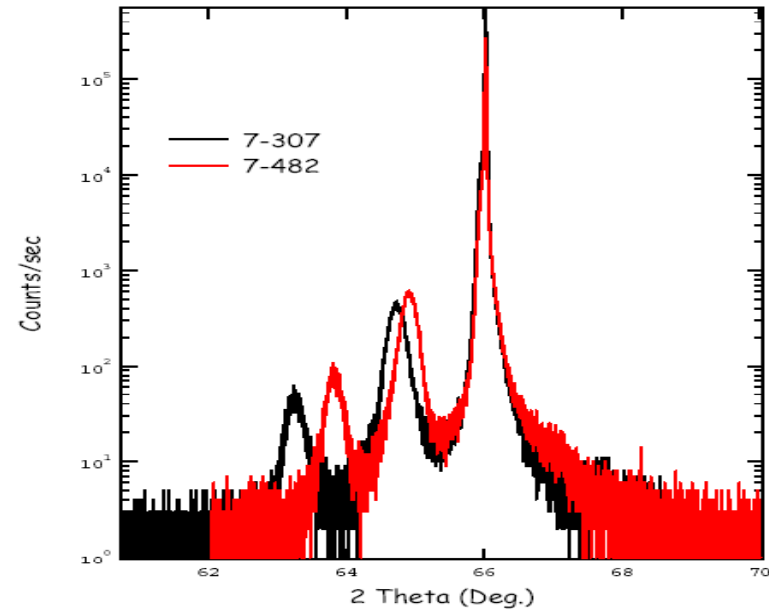
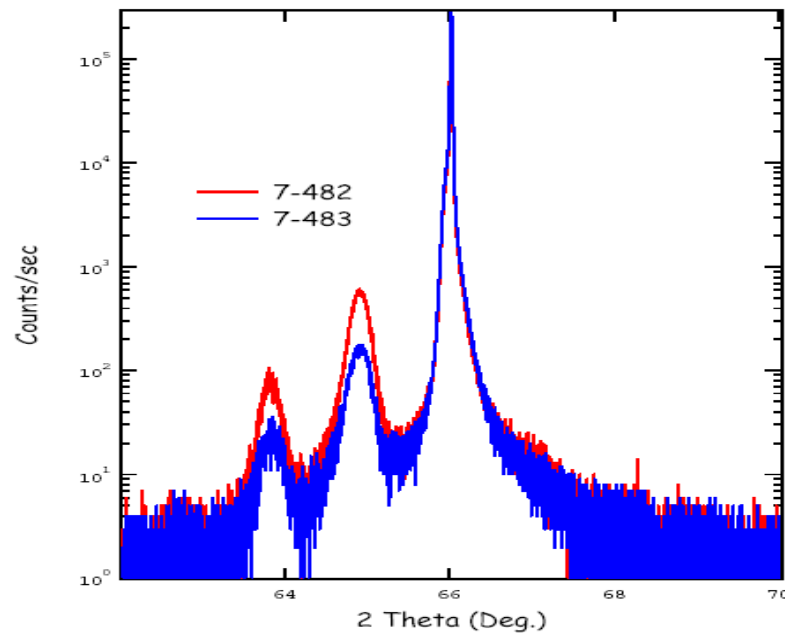
- 7-483
 - Sample #1
 - No chem cleaning
 - Heat-cleaned at 400° C
 - Heat-cleaned at 550° C
 - Sample #4
 - NH₄OH stripping
 - AHC+450° C heat-cleaning

7-483 – Sample #1 and #4



- Peak polarization is 80%.
- Wavelength dependence is different – parameter variation over the wafer?

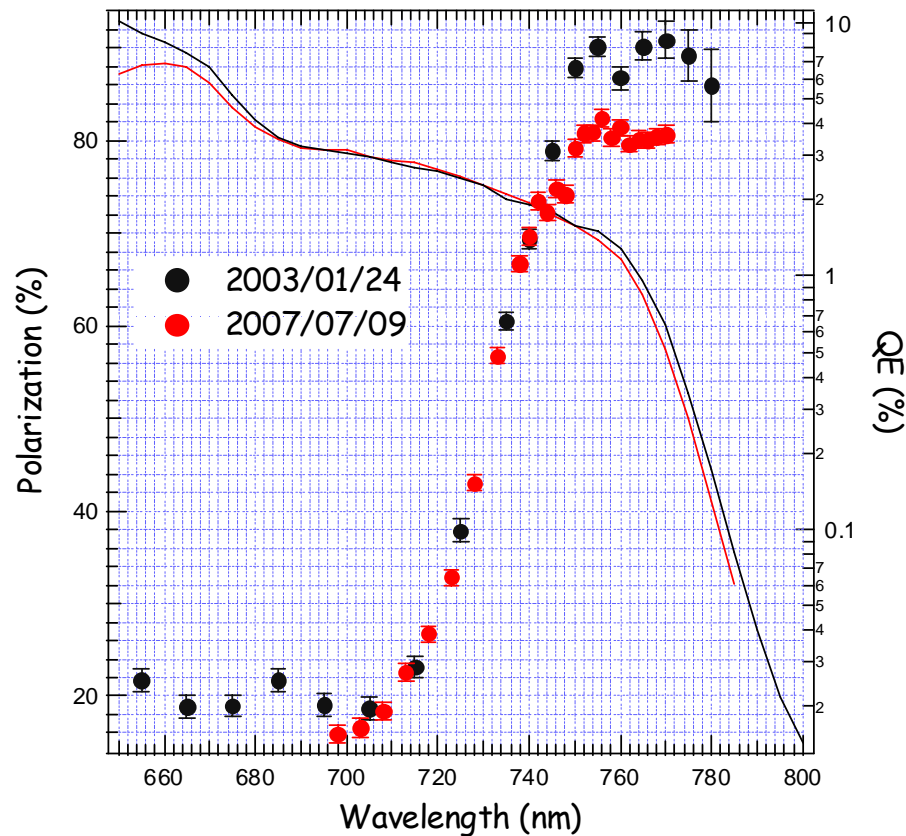
X-ray diffraction analysis



- 7-482 and 7-483 look the same – good reproducibility.
- 7-482 is different from 7-307 which we wanted to duplicate.

	New wafers	7-307
Indium Fraction	19%	22%
SL Period	9.5 nm	7.0 nm

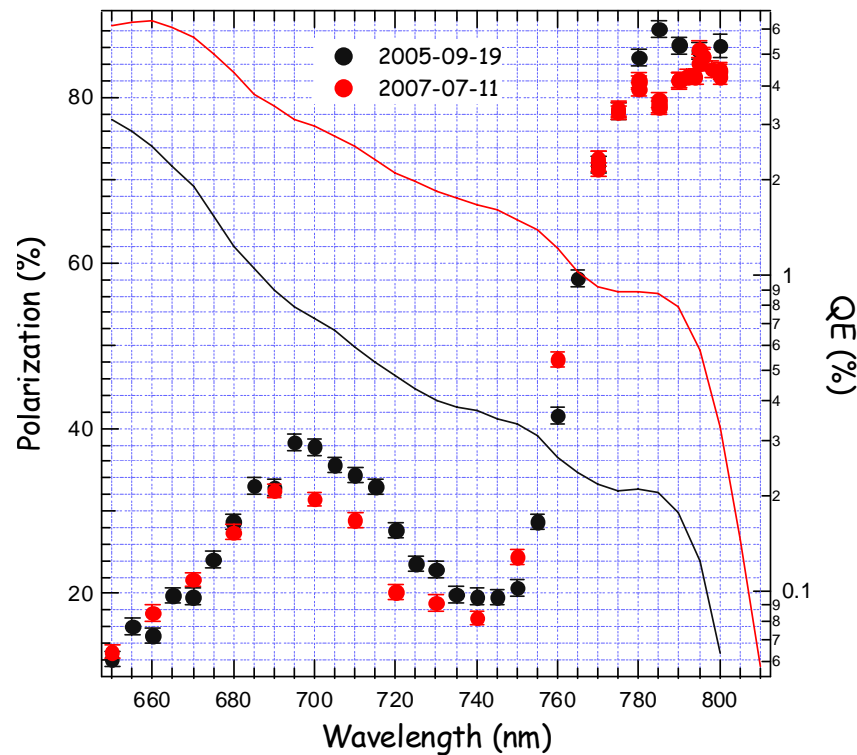
Polarization calibration #1



- SVT-3682
 - Un-used sample
 - NH_4OH stripping
 - AHC + 450°C heat-cleaning.

Polarization could be off by 5%, but this could be due to parameter variation over the wafer.

Polarization calibration #2



- SVT-4252

- Used sample measured on 2005-09-19.
- NH_4OH stripping
- AHC + 450°C heat-cleaning.

Polarization may be 3% off.