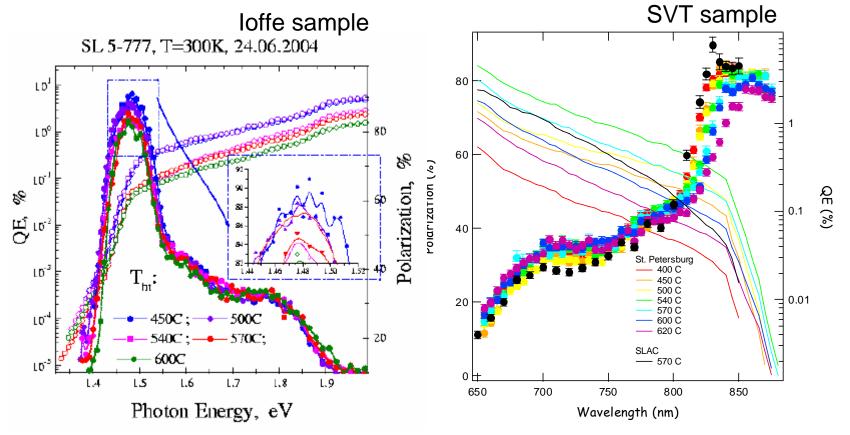
Atomic hydrogen cleaning system on CTS

- AHC can lower the heat-cleaning temperature from ~600°C to 450°C.
- AHC was originally built in order to reduce the dopant diffusion which causes the charge limit.
- Peak polarization seems to be dependent on the heat-cleaning temperature.
 - Seen only in Russian photocathodes.
- All our SVT GaAsP/GaAs superlattice cathodes were heat-cleaned at 570 – 600°C.
- Peak polarization may increase by ~5% if the heat-cleaning temperature is lowered to 450°C.
- Could be structure dependent.

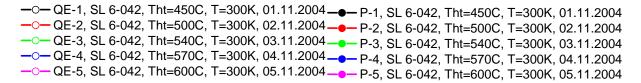
Polarization depends on heat-cleaning temperature - InAlGaAs/GaAs

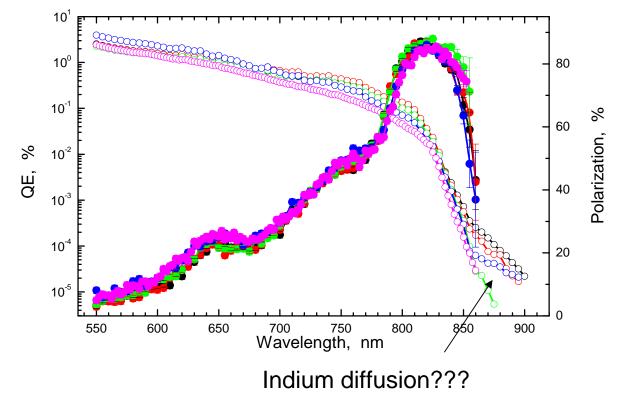


Polarization decreases from 91% to 85%.

Polarization decreases from 85% to 80%, and shifts to longer wavelength.

6-042 - InAlGaAs/AlGaAs





Will look like this in a week or so.

