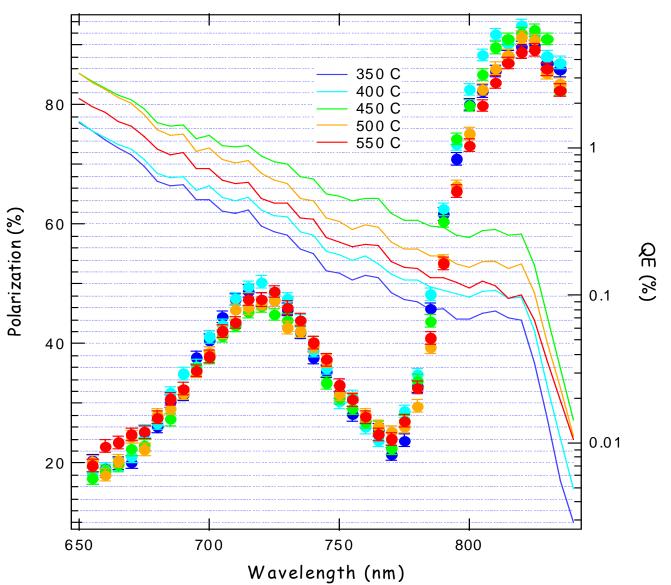
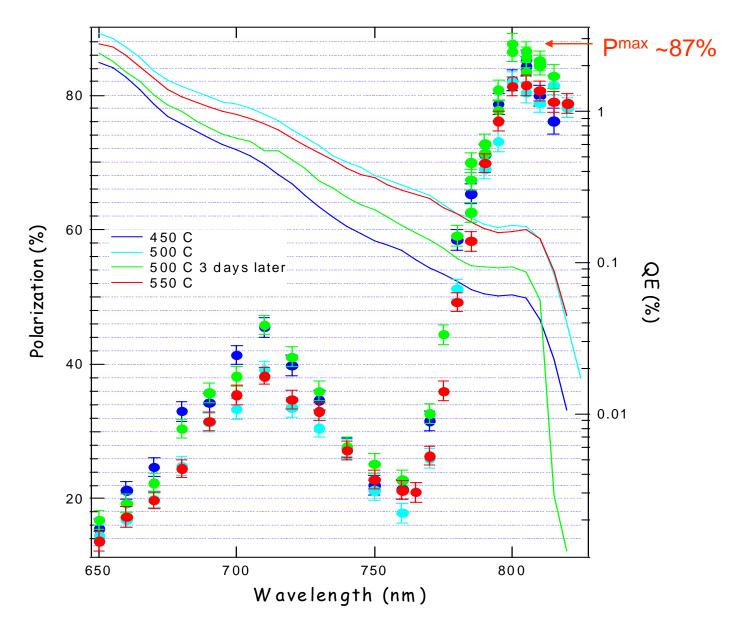
Russian AllnGaAs-AlGaAs superlattice

- Four wafers (7-632, 633, 634, 635) were delivered to SLAC on Jan. 4 2008, 1 ½ months after the growths.
- SPTU kept 1×1 cm samples and completed QE/Polarization measurements.
 - Peak polarizations
 - 7-632 88%
 - 7-633 92.3
 - 7-634 89
 - 7-635 93.4
- Measure QE/Polarization of 7-635
 - No chem cleaning.
 - Heat-cleaned at 450°C, 500°C, and 550°C.



SPTU measurements of 7-635

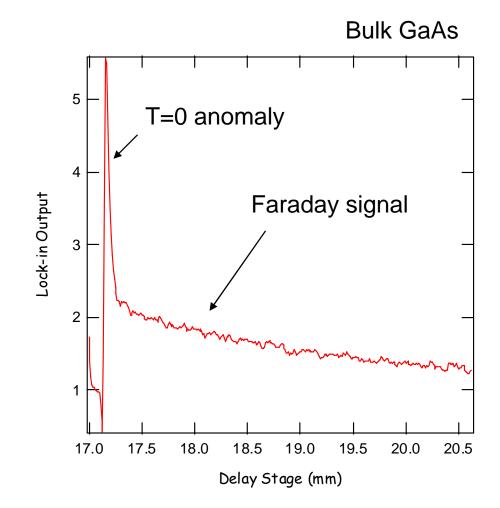
CTS measurements of 7-635



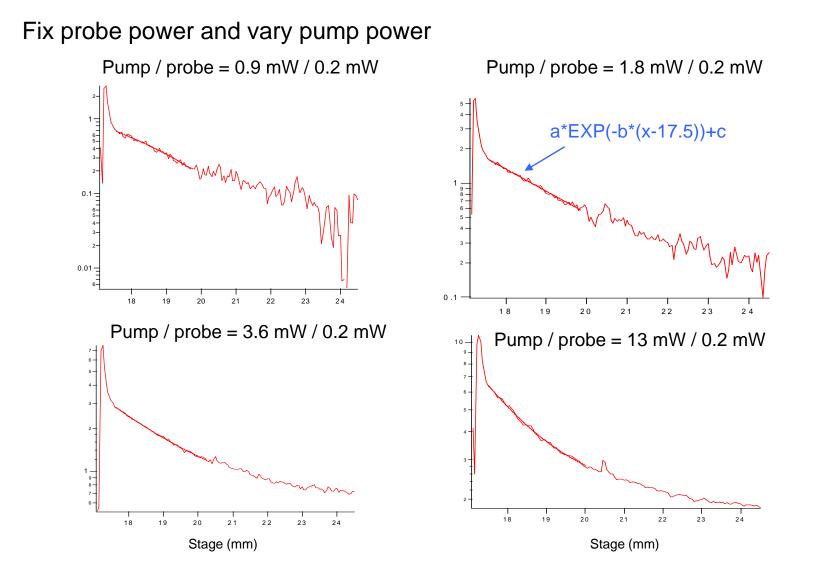
Faraday rotation experiment

- Faraday signal is stable and reproducible.
 - Signal is reproducible over many days.
 - Lost the beam overlap a couple of times but the signal was restored in ~10 min.
 - Beam overlap is made using 50 μ m^{ϕ} pin hole.
- Measure laser power dependence
- T=0 anomaly is not understood.

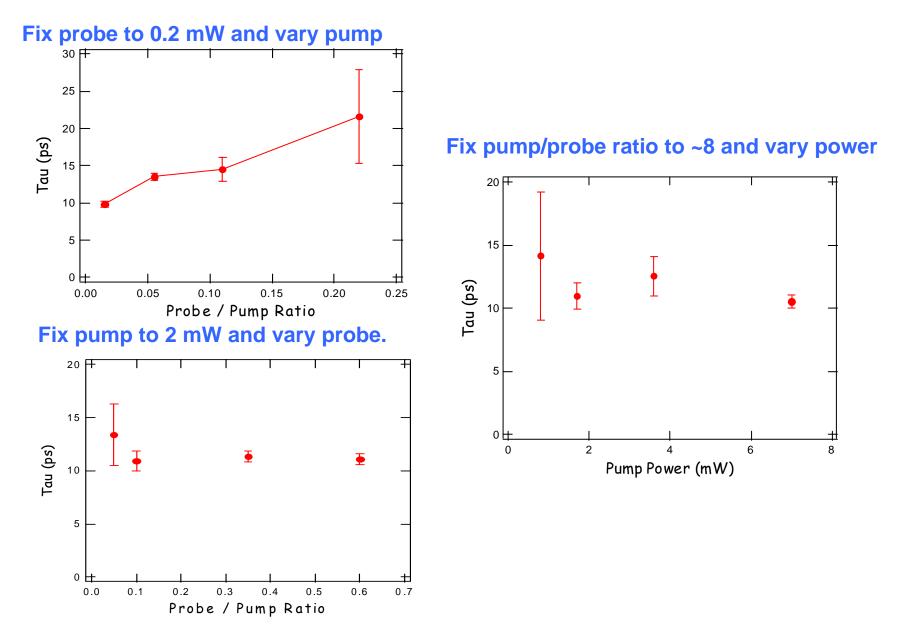
Faraday signal



Pump-probe power dependence



Laser power dependence



T=0 anomaly

