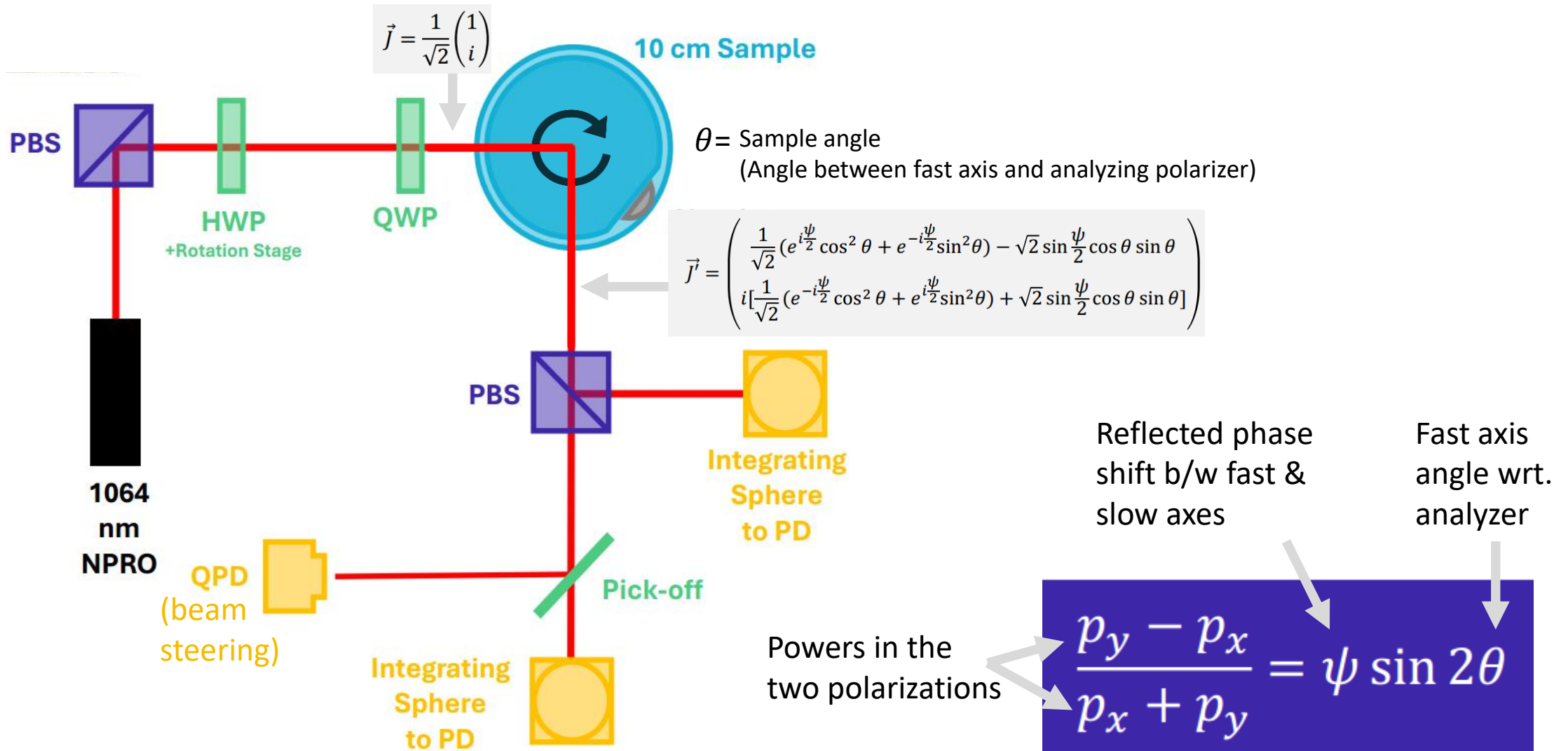


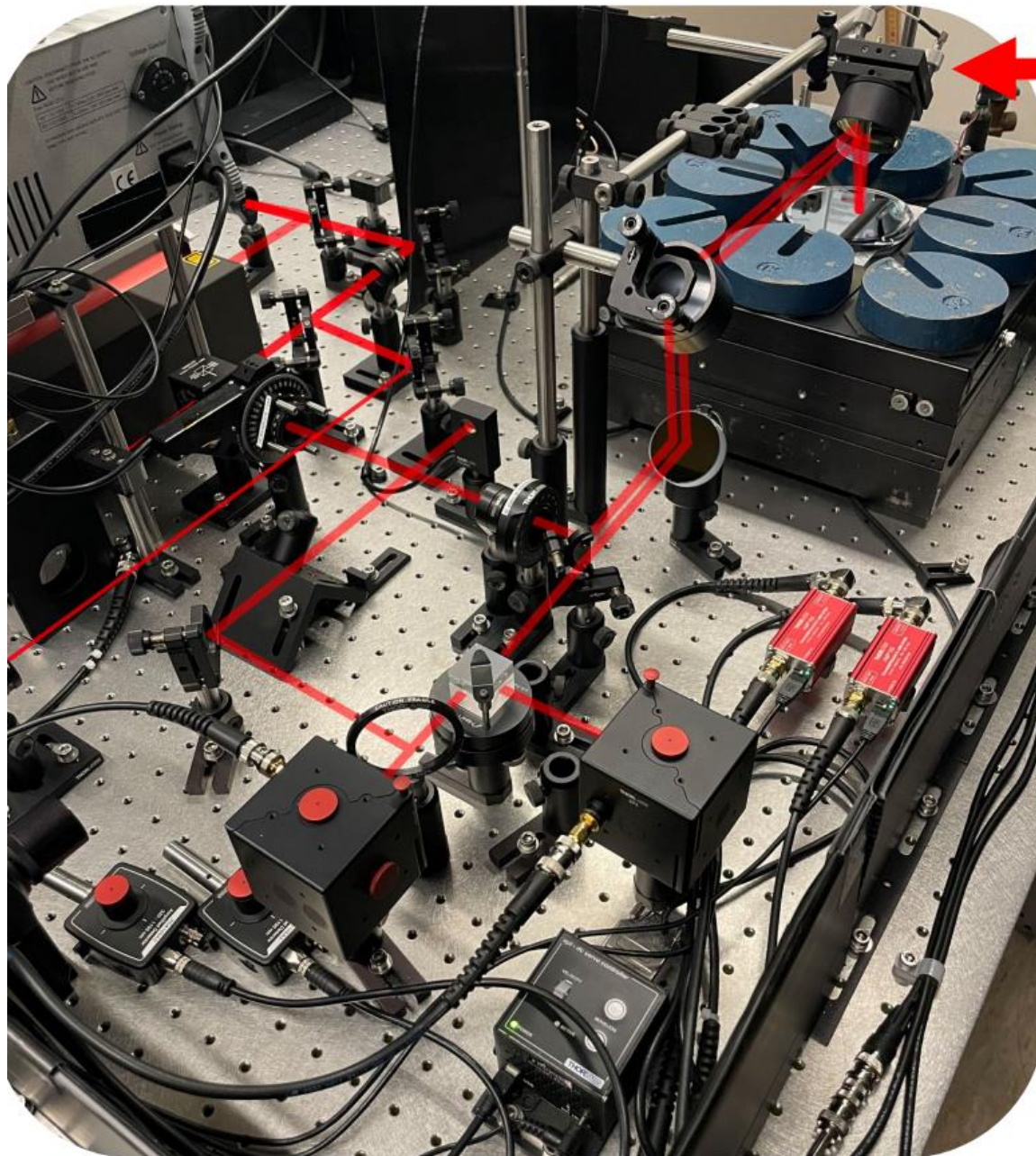
# Birefringence Variation in 10 cm Diameter AlGaAs on Silica Mirror

Andri Gretarsson, Breck Meagher  
Embry-Riddle

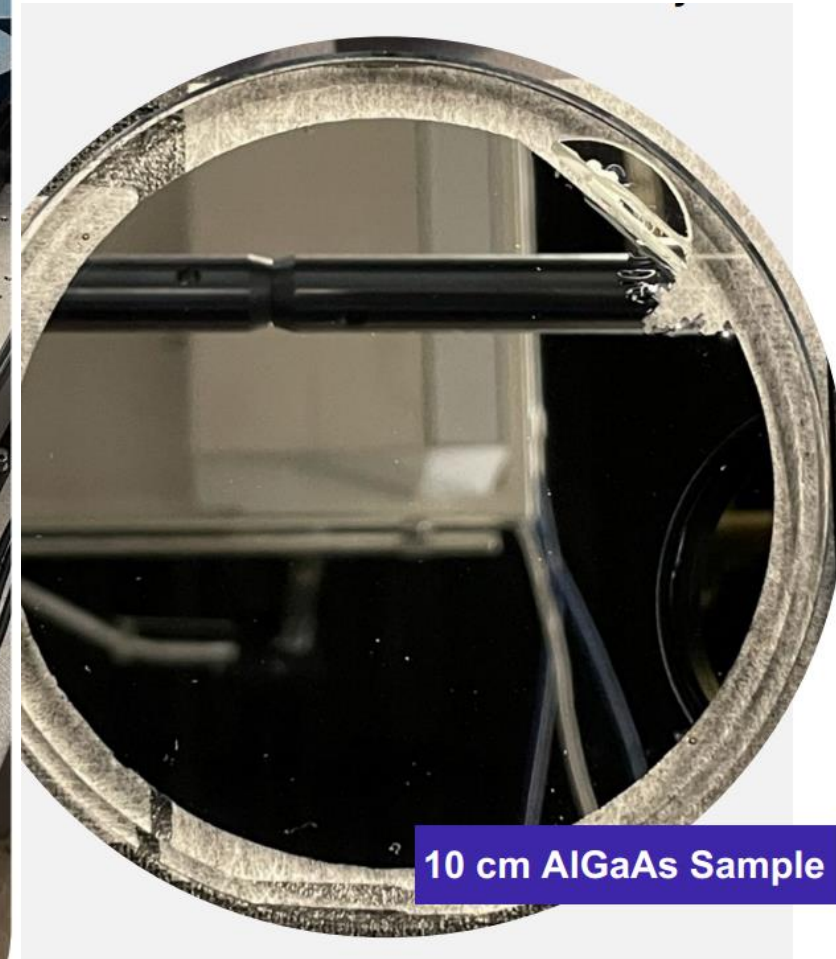
# Single-reflection Measurement



Recent  
Photo



**Beam Steering!**

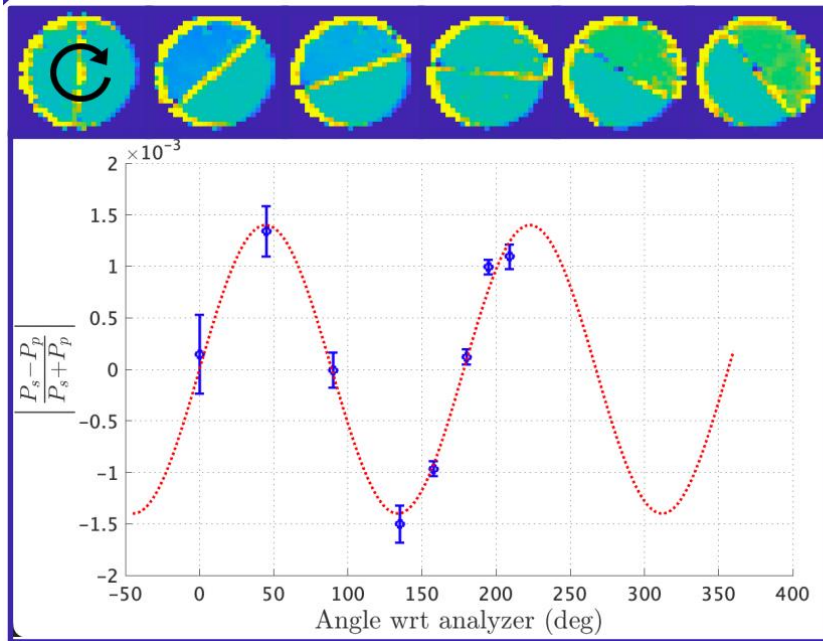
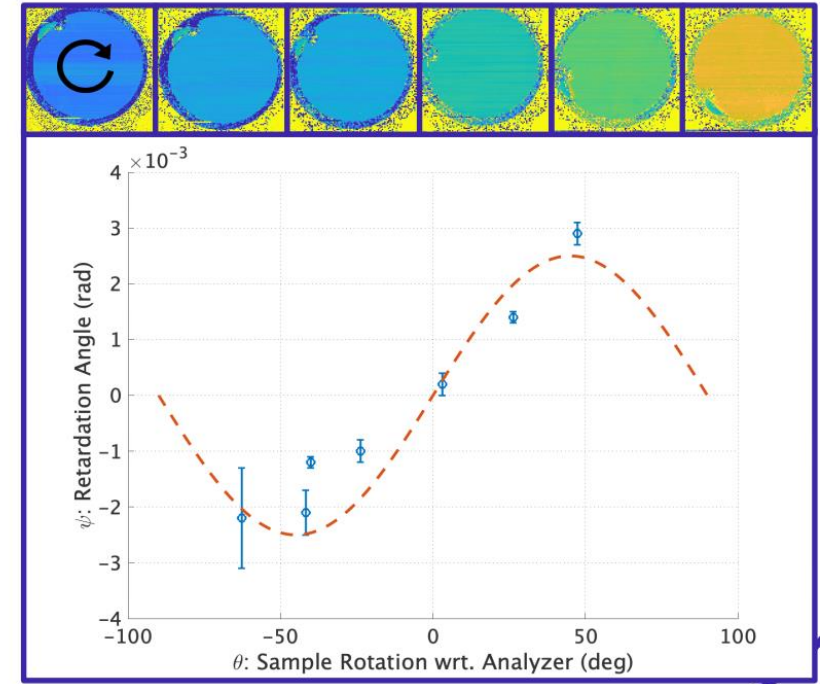


**10 cm AlGaAs Sample**

# Stress-induced birefringence

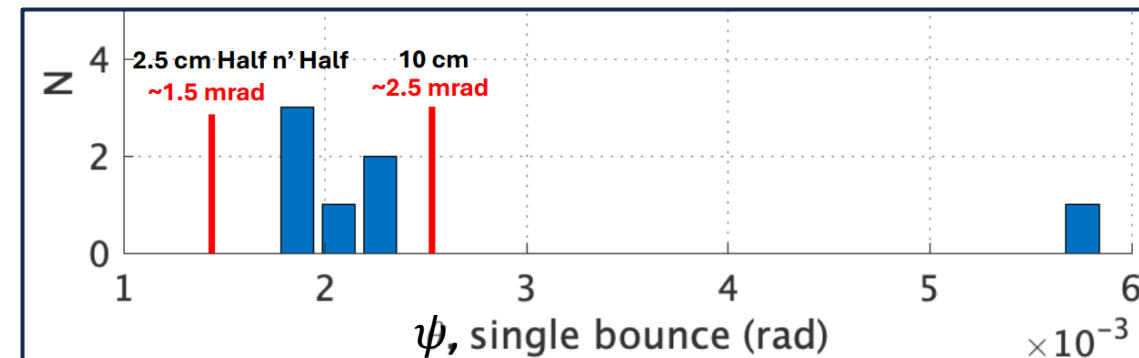
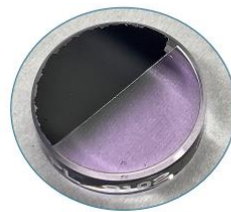
## 10 cm Sample

- $\psi = 2.5 \pm 0.5$  mrad

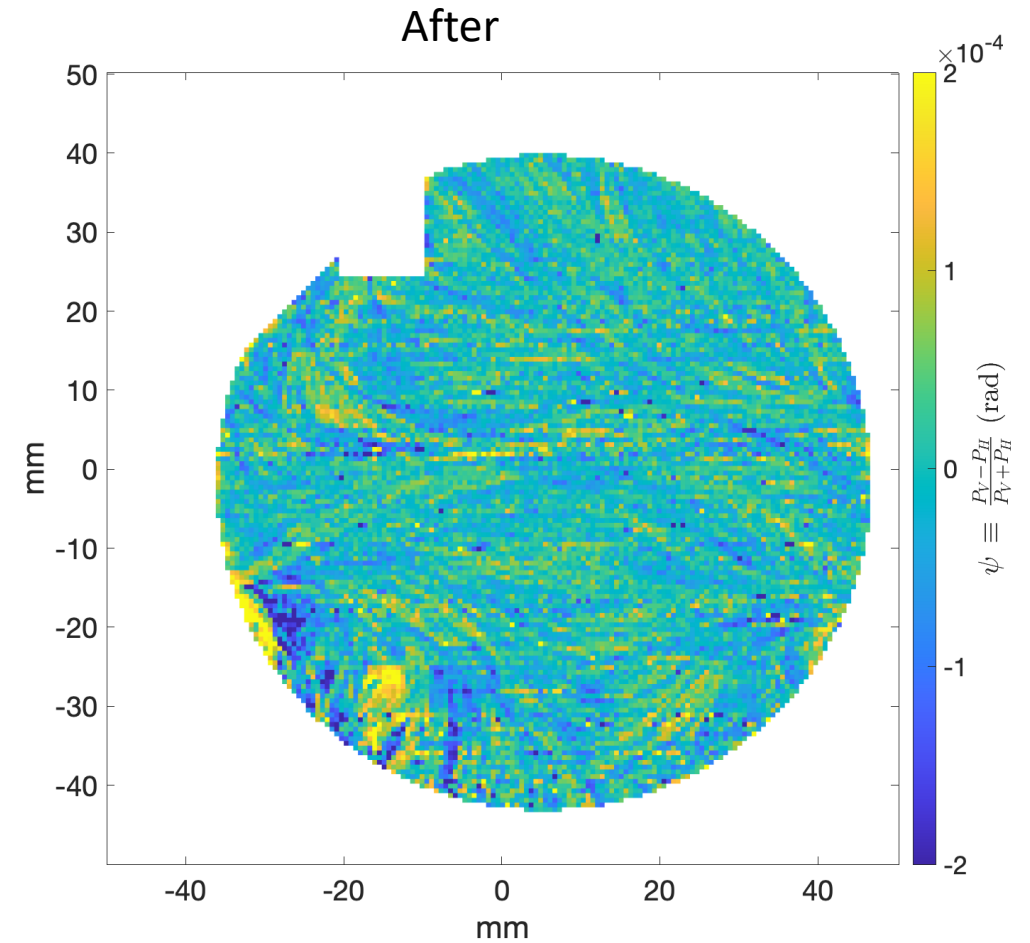
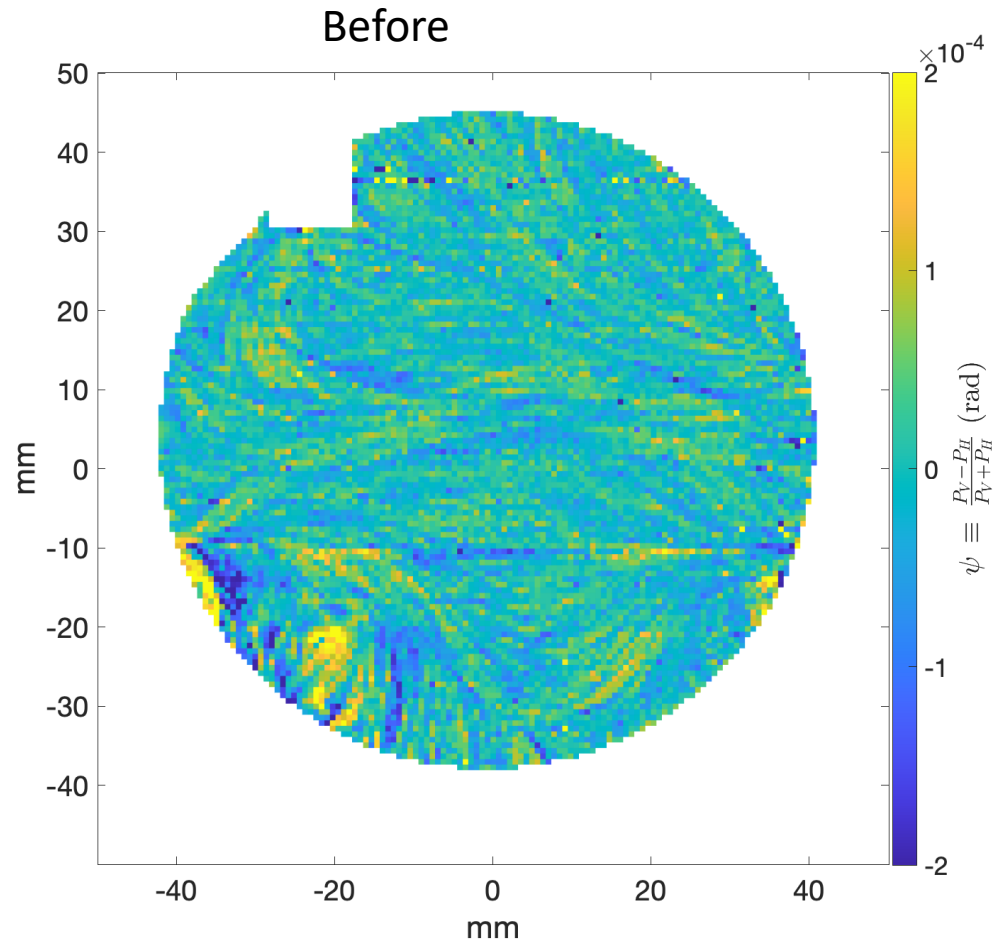


## 2.5 cm Half and Half

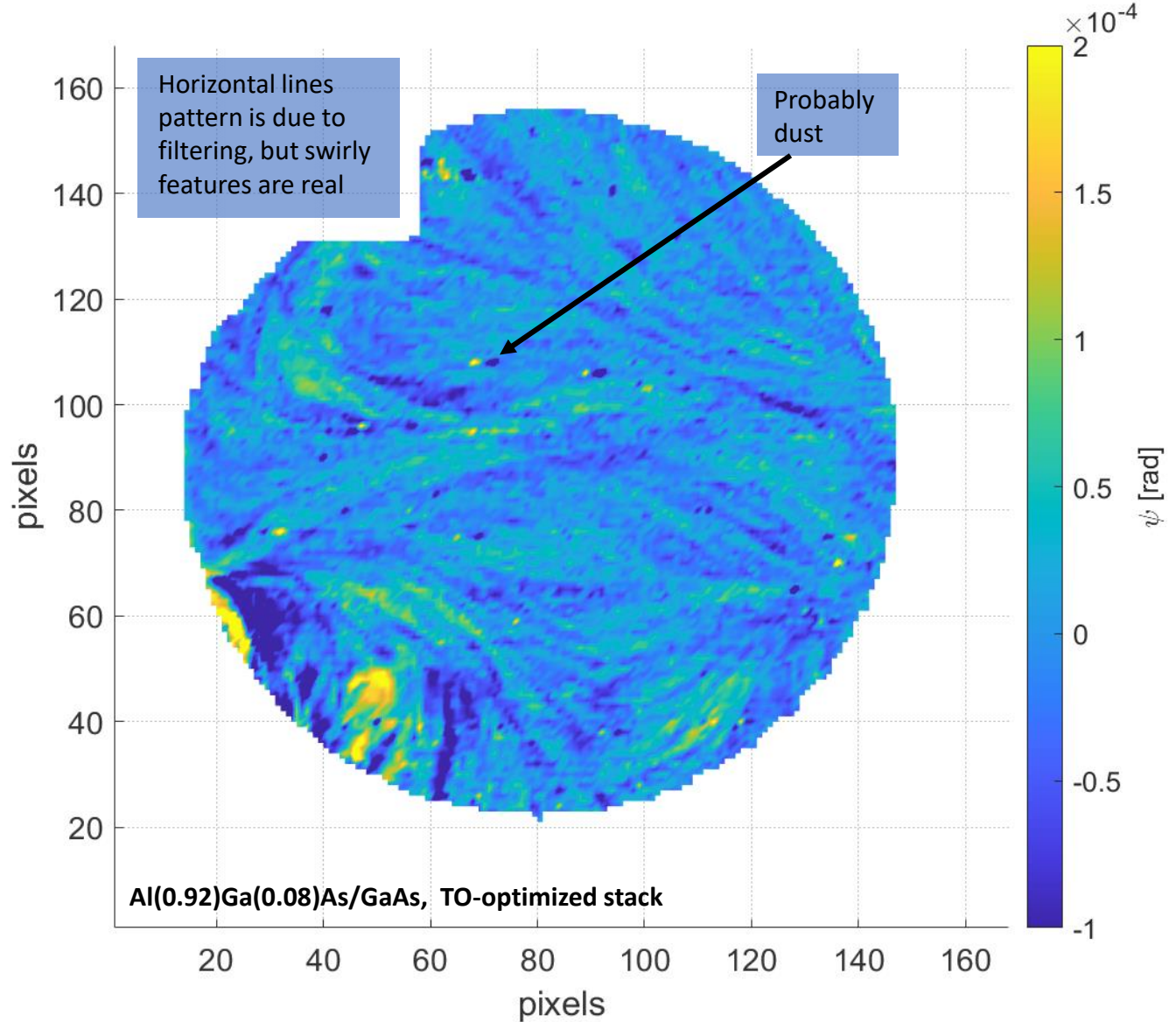
- $\psi = 1.5 \pm 0.25$  mrad



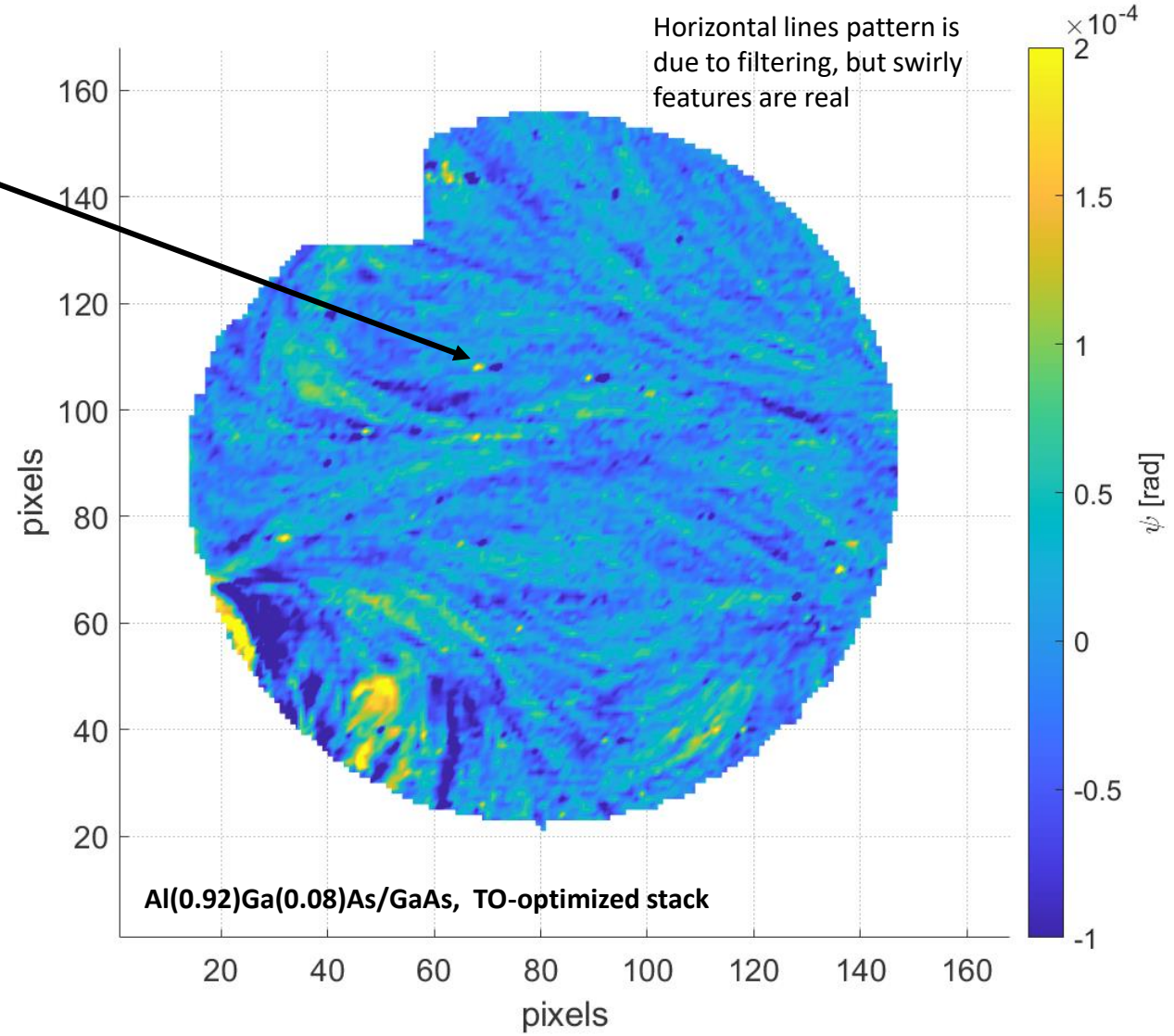
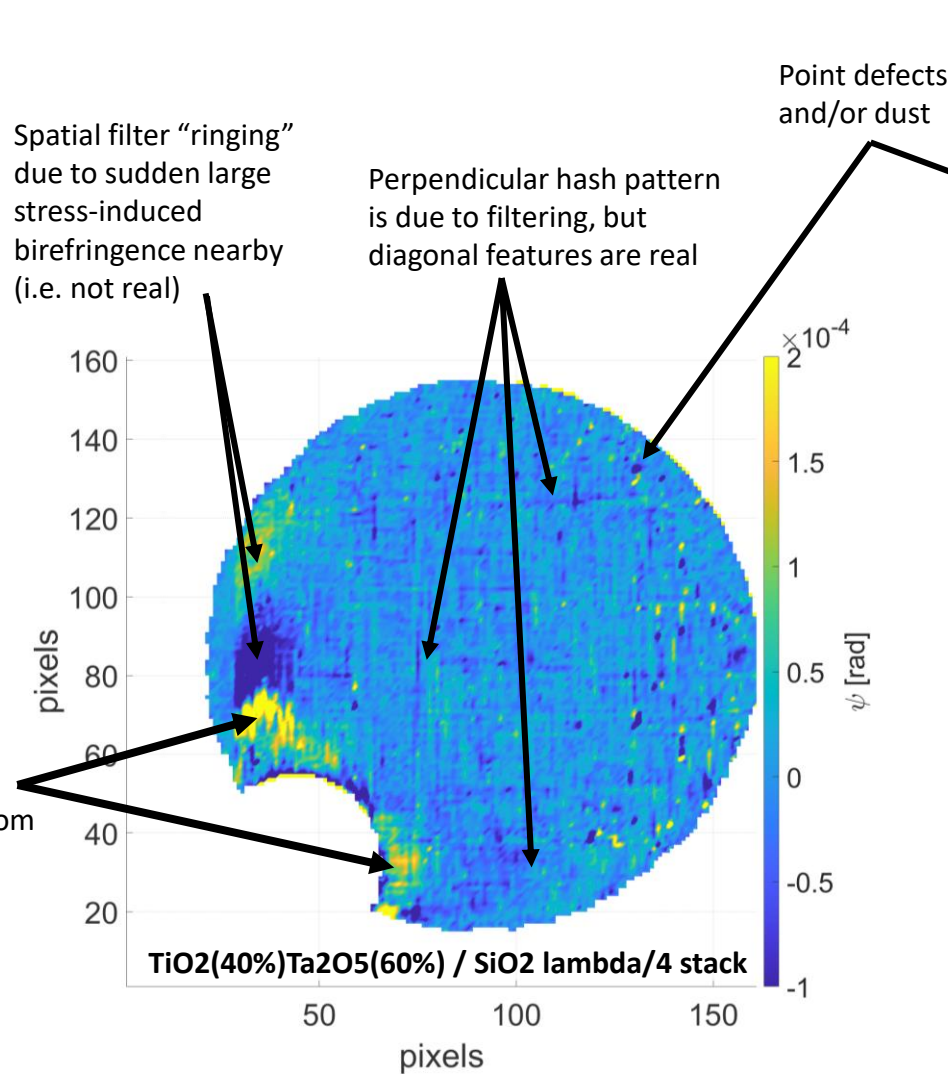
# (Non) Effect of Cleaning with First Contact



# Average of Two Scans



# Birefringence Scans



Fast axis of variation is approximately aligned with main birefringence axis

