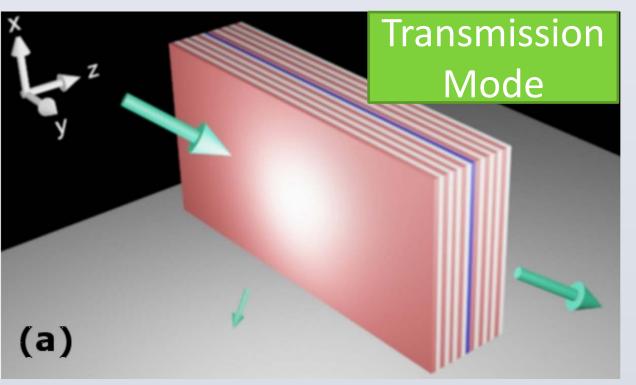
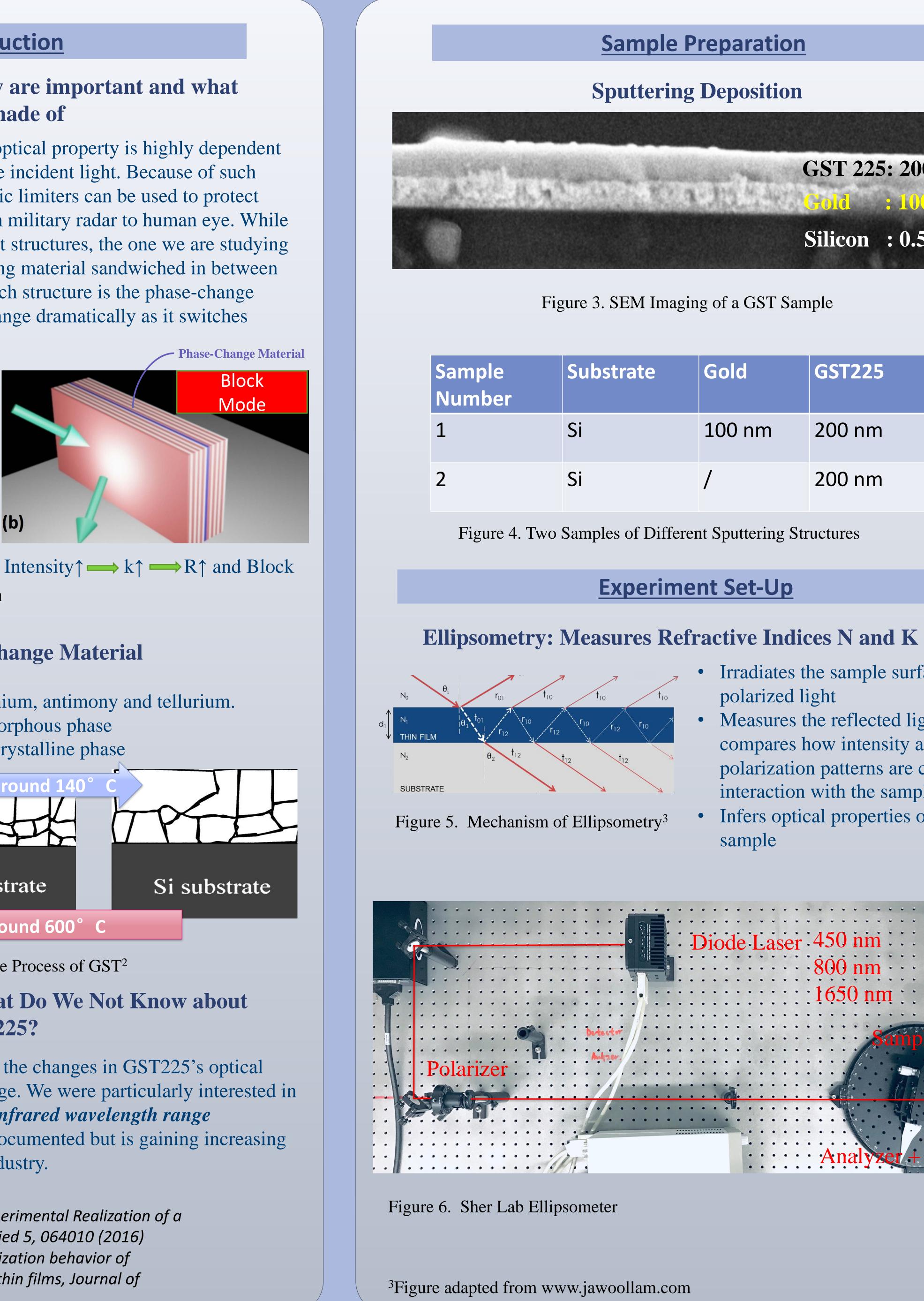
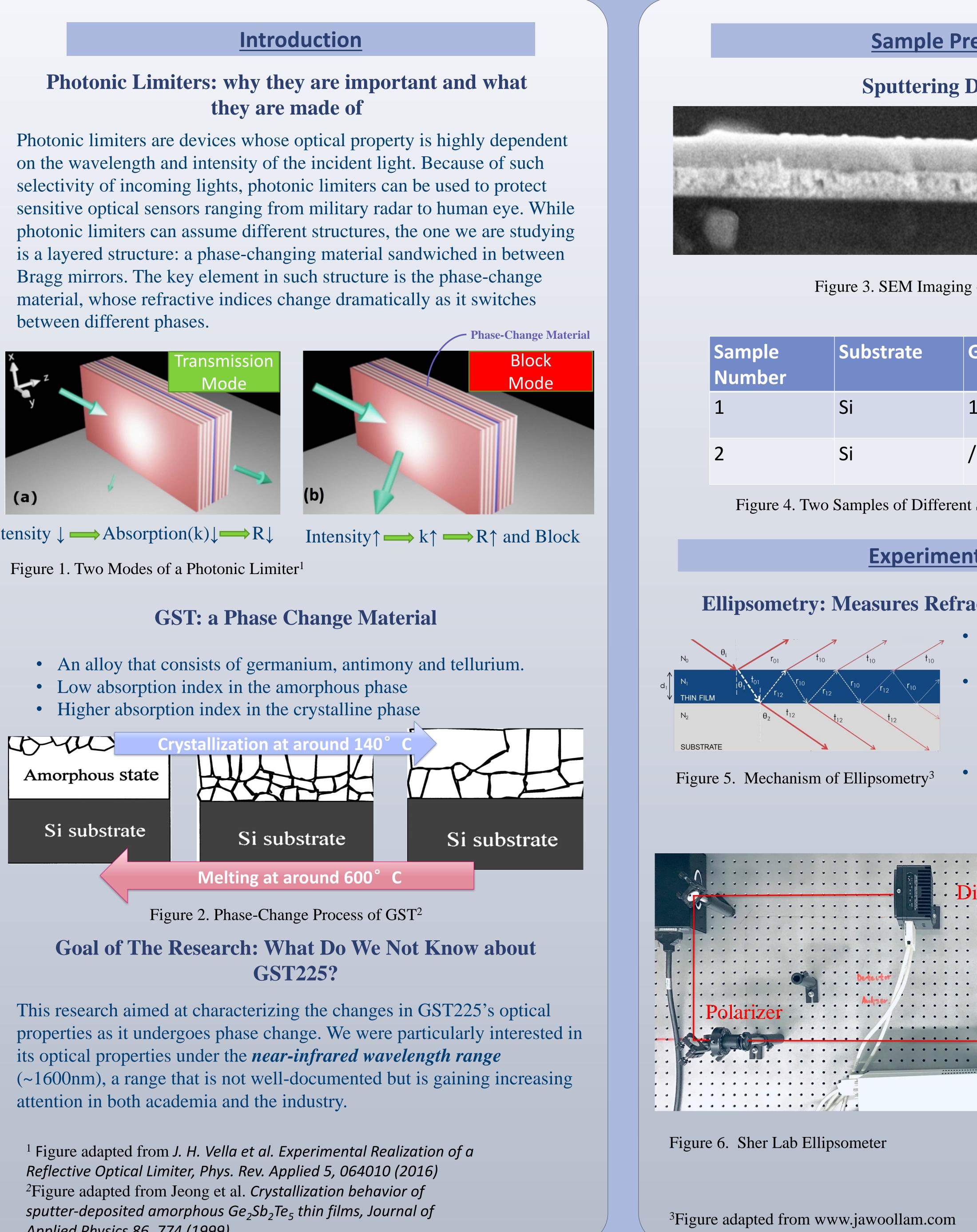
they are made of





Intensity $\downarrow \longrightarrow Absorption(k) \downarrow \longrightarrow R \downarrow$



Applied Physics 86, 774 (1999)

Phase-Change Materials for Photonic Limiters Tony Jianbang Liu, M.-J. Renee Sher Department of Physics, Wesleyan University, Middletown, CT 06459

-	GST 225: 200 nm	
Martin Start	Gold	: 100 nm
	Silicon	: 0.5mm

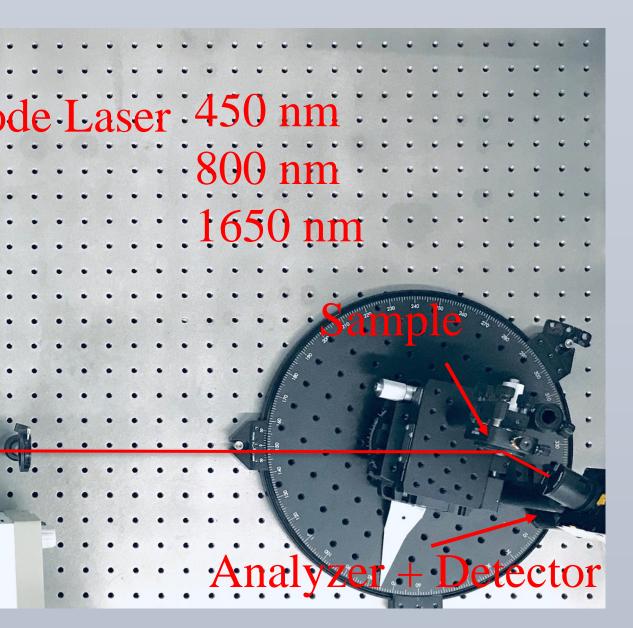
d	GST225
) nm	200 nm
	200 nm

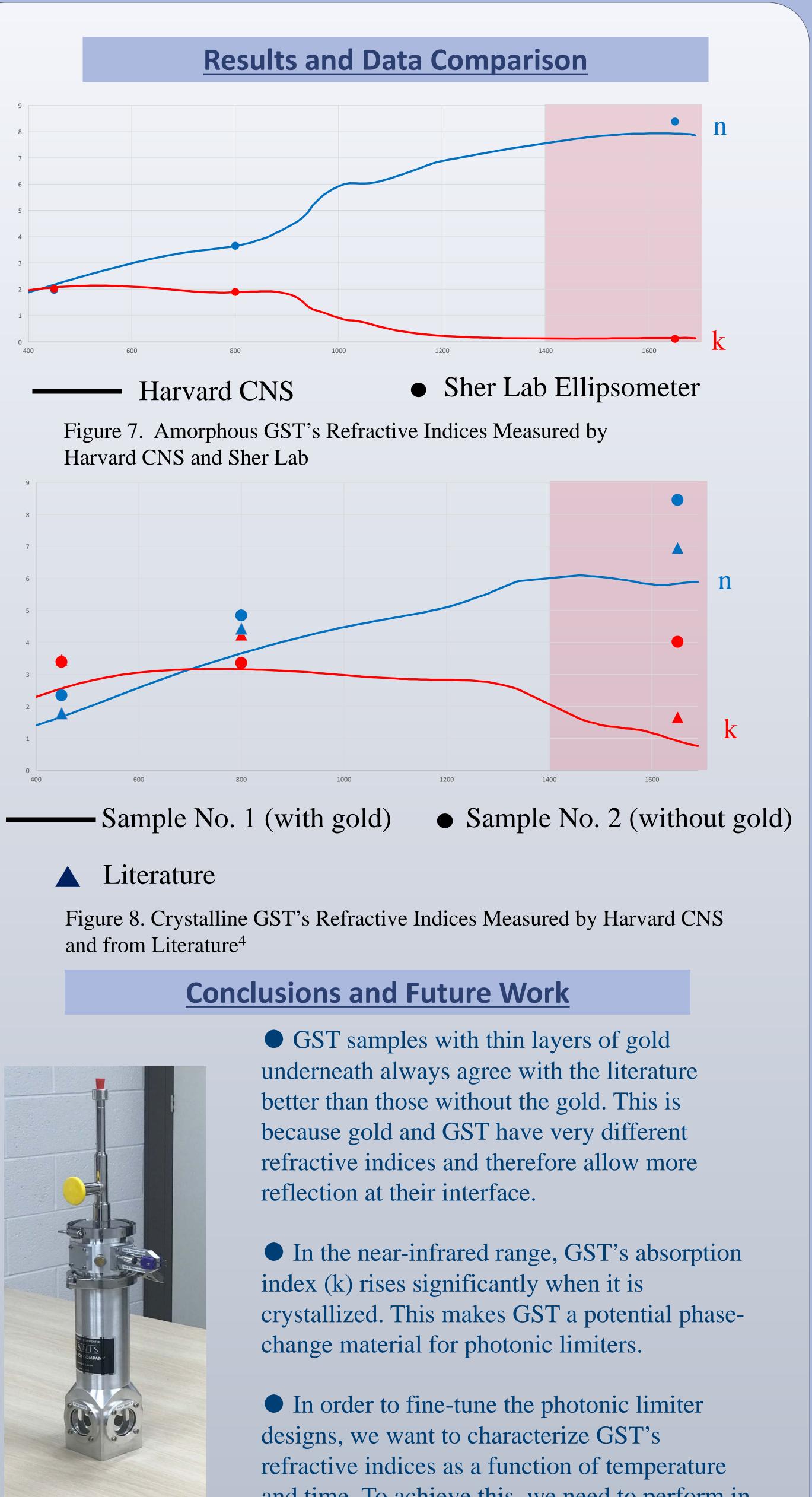
• Irradiates the sample surface with polarized light

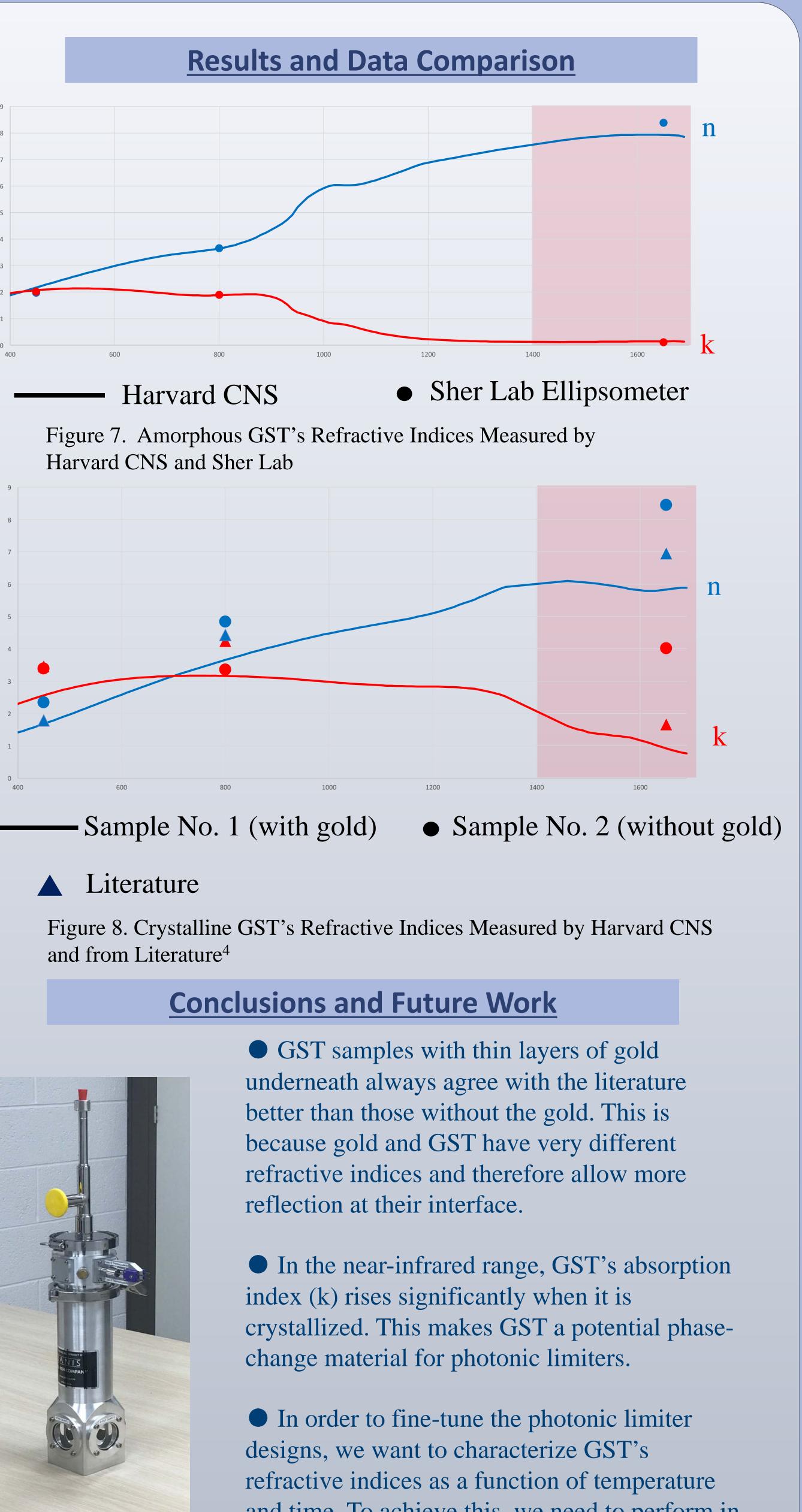
Measures the reflected light and

compares how intensity and polarization patterns are changed by interaction with the sample

Infers optical properties of the sample



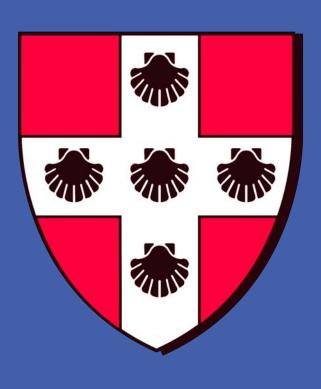






Materials, Vol 7, 653 (2008)

Figure 9. The Cryostat for Future In-Situ Measurements ⁴Data obtained from *Kostiantyn Shportko et al. Resonant* bonding in crystalline phase-change materials, Nature



and time. To achieve this, we need to perform insitu measurements by putting the samples in a cryostat that can dynamically adjust temperature.