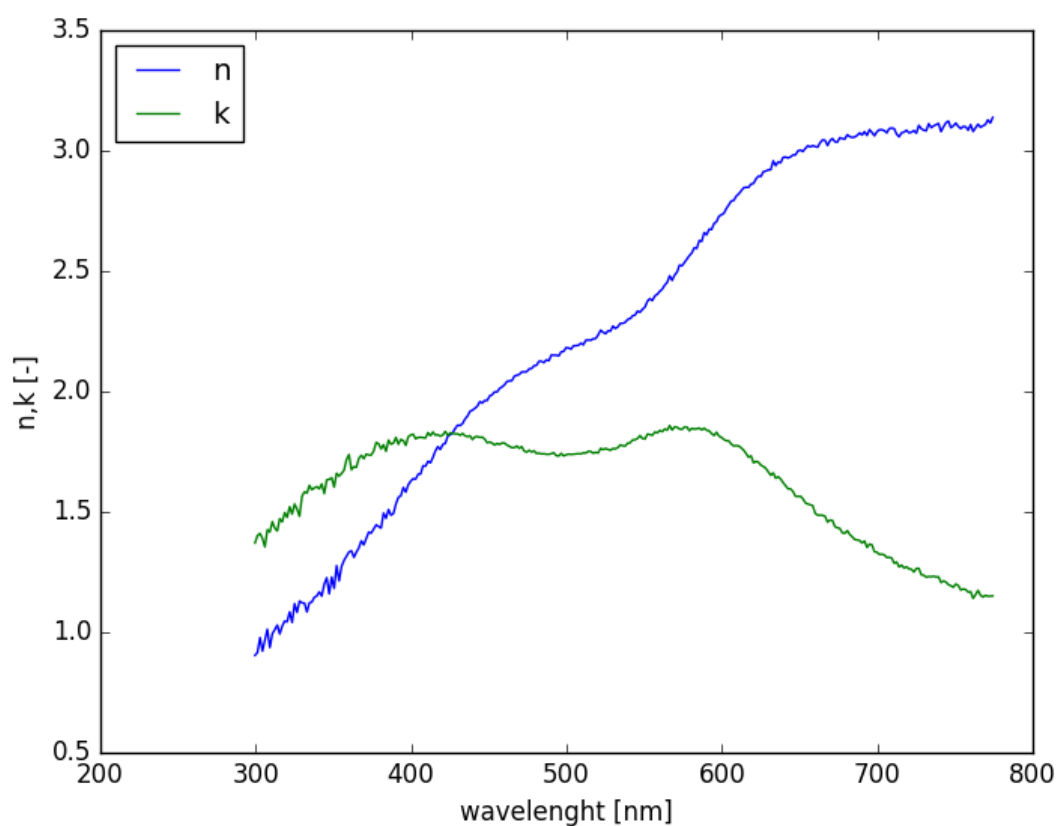


# Supplementary Materials: Kinetics of a phonon-mediated laser-driven structural phase transition in $\text{Sn}_2\text{P}_2\text{Se}_6$

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**Figure S1.** Refractive indices of  $\text{Sn}_2\text{P}_2\text{Se}_6$  as function of wavelength.

Ellipsometry data on bulk  $\text{Sn}_2\text{P}_2\text{Se}_6$ , at 20 degrees incidence, recorded on a commercial variable angle spectroscopic ellipsometer M-2000 F<sup>TM</sup>, J.A. Woollam Inc., Lincoln USA. The refractive indices were calculated with the accompanying software package, WVASE<sup>®</sup>, assuming isotropic material properties.