

"Evaluating the Thermal Conductivity of 3D-Printed PLA" Kyle Miller

Sac State Physics Major Senior Project Research

This study aims to enhance our understanding of the low-temperature thermal properties of 3D-printed thermoplastics, specifically Polylactic Acid (PLA). The growing accessibility of commercial 3D printers has facilitated the rapid and cost-effective creation of custom components. Our research investigates the suitability of these components for cryogenic applications by employing a novel approach to measure thermal conductivity – the wire-based 3ω technique.

*Tuesday, May 9, 2023 4:00 - 5:20PM MND1015 Open & Free to all students, faculty and public