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HIGH SCHOOL: MEASURING THINGS WHICH ARE VERY FAST OR VERY SMALL... LIKE LIGHT WAVES!

HOW MUCH IS THE WORKSHOP?

The workshop is \$100 a student.

What does this include?

Students will be provided lunch and snacks.

Please have them bring a reusable water bottle!

WHEN IS THE WORKSHOP?

June 27th-July 1st, 2022

9am-4pm every day

IS THIS WORKSHOP IN PERSON?

Yes, students will need to be on UC Merced's campus. Students will meet on South Campus near the Bellevue Lot (near UC Merced sign with palm trees)

HOW CAN I REGISTER MY STUDENT?

Register here:

[https://commerce.cashnet.com/
UCME251_W1](https://commerce.cashnet.com/UCME251_W1)

SUMMARY OF WORKSHOP

Light travels very very fast, while an individual light wave is very very small. So, how do we measure these things in a lab? In this STEM Academy you will find out: we will learn to use some basic physics lab equipment like function generators, oscilloscopes, and lasers. We will then conduct our own measurements of the physical properties of light and sound and see how close we can get to the true values. Put your skills to the test in this interactive seminar.

MEET THE INSTRUCTOR

Taught by Dustin Kleckner:

A native of Wisconsin,

Professor Kleckner received his

PhD in Quantum Optics from

UCSB in 2010. After his PhD, he

did a postdoc at the University

of Chicago where he worked on Topological

Vortex Mechanics (basically: tornadoes tied in

knots). In 2015 he joined the faculty at UC

Merced, where he is studying a variety of

topics in Soft Matter Physics and Fluid

Mechanics. In his spare time he enjoys rock

climbing in Yosemite and various other

outdoor pursuits.

