

Research Interest:

My primary research interest is in nitrogen-vacancy (NV) centers in diamond. The negatively charged NVcenter has generated much excitement for its applications in magnetometry and quantum computing, but many of its basic properties are still unknown. My goal is to map out the NV- energy level structure using pump-probe spectroscopy. My other work includes spectroscopy of the excited states of thorium (to support the 7.8 eV 229Th nuclear transition effort) and optical frequency standard distribution with a femtosecond frequency comb.

About Me:

I study physics because I like understanding how things work on a fundamental level and solving interesting problems. I also enjoy teaching and building things. Before settling on AMO physics, I worked in neutrino physics, nuclear physics, accelerator physics, radio astronomy, and nutrition. My hobbies include music (violin), cycling, and electronics.

Pauli Mark Kehayias

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Graduate Discipline: Experimental atomic, molecular, and optical (AMO) physics

Hometown: Brookline, MA

Relevant SC Research: Basic Energy Sciences

