

Imaging nuclear recoil damage in minerals with light-sheet microscopy

Tuesday, April 14, 2026 3:00 PM (30 minutes)

Nuclear recoils can induce damage in crystal lattices; in certain materials, these defects can capture electrons, turning them optically active (i.e. color centers). At Virginia Tech, we have constructed the mesoSPIM light-sheet fluorescence microscope, which can rapidly image recoil-induced defects in cm³-volumes with micrometer-scale precision. In this talk, I will present commissioning data from the VT mesoSPIM and discuss prospects for imaging recoil damage in natural minerals.

Do you plan to give the talk in person?

Yes

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