



US-Africa Initiative Workshop

APS March Meeting - Sunday, March 14, 2021

Sponsored by the APS Innovation Fund

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Theory of excited state electronic structure and x-ray spectra

Our research in theoretical condensed matter theory focuses on many-body theory, excited state electronic structure, and especially theories of x-ray and electron spectroscopies.

Members of our group include Research Prof. Josh Kas, Dr. Fernando Vila, and Siri Vimolchaleo. We are also participants in the Theory Institute for Materials and Energy Spectroscopies (TIMES) at SLAC, and the European Theoretical Spectroscopy Facility (ETSF).

Our group is well known for Green's function approaches for x-ray and electron spectroscopies, and their implementation in FEFF and other codes for simulations and analysis of experiments at modern synchrotron and XFEL light sources.

<http://www.feff-project.org>

<https://web.stanford.edu/group/times/>

We believe our open-source codes may be useful to participants in the US-Africa Initiative interested in excited state electronic structure and x-ray spectra, and we welcome future collaborations.