## Abstract Submitted for the MAR14 Meeting of The American Physical Society

Static and time-resolved optical spectroscopy on Lithium Iridate JAKE KORALEK, Lawrence Berkeley National Lab, JAMIE HINTON, SHREYAS PATANKAR, JOE ORENSTEIN, TESS SMIDT, NICHOLAS BREZNAY, NITYAN NAIR, JAMES ANALYTIS, UC Berkeley — We use FTIR and pump-probe spectroscopy to study lithium iridates. The IR spectrum shows an anomalous peak which emerges as temperature is reduced and is highly anisotropic in the ab-plane polarization. In the time-domain we observe similarly anisotropic reflectivity transients whose multiple dynamic components evolve as temperature is reduced.

Jake Koralek Lawrence Berkeley National Lab

Date submitted: 16 Nov 2013 Electronic form version 1.4