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Optical Properties of the Multiferroic Crystal Cu2OSeO3[1] KEVIN MILLER, DAVID TANNER, DANIEL ARENAS, University of Florida Physics Department, HELMUTH BERGER, Facultè des Sciences de Base — Reflectivity as a function of temperature has been measured on the multiferroic crystal Cu2OSeO3 utilizing light spanning the far infrared to the visible portions of the electromagnetic spectrum. The complex dielectric function was obtained via Kramers-Kronig analysis. The optical properties as well as the dynamics of particular phonon modes have been monitored through the magnetic phase transition temperature (Tc=60K). Tentative assignments have also been made to the strong far infrared phonon modes.

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