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Light Propagation Through Transition Metal Dichalcogenides¹ CHRISTOPHER STEVENS, JAGANNATH PAUL, HAOXIANG ZHANG, Univ of South Florida, ANDREAS STIER, Los Alamos National High Magnetic Field Laboratory, DENIS KARAISKAJ, Univ of South Florida — C.E.STEVENS, J.PAUL, H.ZHANG, Dept. of Physics, University of South Florida, Tampa, Florida 33620, USA. A.V.STIER, National High Magnetic Field Laboratory, Los Alamos, New Mexico 87545, D. KARAISKAJ, Dept. of Physics, University of South Florida, Tampa, Florida 33620, USA. – Using broadband light, the propagation of light through MoSe2 and WSe2 was investigated. Measuring the optical density for samples with different number of layers, we found that these values differ from what the Beer-Lambert Law predicts. The results were also modeled theoretically according to an effective two-band model.

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