

Abstract Submitted  
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**Optical wave evolution in nano-structured plastic films** MICHAEL BAKER, MICHAEL CRESCIMANNO, Youngstown State University, Dept. Physics and Astronomy — To model the transport of light through a microlens made out of microlayered film from the NSF Science and Technology Center for Layered Polymeric Systems (Case Western Reserve University, lead institution), we employ the transfer matrix method to determine the amplitude of the transmitted wave at each layer of the film. The results highlight the profound dispersive effects in and around the reflection band.

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