

Abstract Submitted  
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**Theory of Coherent Perfect Absorption (CPA) applied to the layered polymer laser** MICHAEL CRESCIMANNO, Youngstown State University, Dept. Physics, JAMES ANDREWS, Youngstown State Univ., Dept. Physics and Astronomy, GUILIN MAO, Youngstown State University, Dept. of Physics and Astronomy — Coherent perfect absorption (CPA) is a situation in which counterpropagating pump beams can be adjusted so that both beams are completely absorbed by the system. Using theory we delineate the conditions under which a CPA condition can be achieved in real polymeric laser films and remark on CPA's utility for enhancing these films utility.

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