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I. Gabitov*, Department of Mathematics, University of Arizona, **R. Indik**, Department of Mathematics, University of Arizona, and **B. Kennedy**, Department of Mathematics, University of Arizona. *Optical field interaction with multi-level atoms embedded in negative refractive index material.*

We investigated an optical pulse interacting with multi-level atoms embedded in a metamaterial with negative index of refraction. (Received August 23, 2007)