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**Daniel T Onofrei\*** (onofrei@math.uh.edu), University of Houston, Mathematics Department, 4800 Calhoun Road, Houston, TX 77004, and **Andrew Thaler**. *The near-cloak defeats the anti-cloak.*

The subject of shielding or cloaking certain regions of space from electromagnetic or acoustic waves gained a lot of attention in the recent years. One of the most popular ideas for this is to surround the region of interest with a metamaterial layer (high contrast man-made composites) to force the incoming waves to avoid the core region and propagate undisturbed in the far field. In the literature this is referred to as the perfect cloak. In practice though, one is able only to approximate such a behavior and thus ends up with what is referred to as the near cloak. Recently, the anti-cloak, i.e., a strategy to cancel the effect of perfect cloaking, was proposed. In this talk we will show analytically and numerically, how the near cloak scheme can be adapted to defeat the anti-cloak. (Received August 29, 2011)