1096-78-2183 **Jason M. Cornelius*** (jmcornelius10@students.desu.edu) and **Jinjie Liu** (jliu@desu.edu).
Numerical Simulation of the Space-Time Cloak. Preliminary report.

In this work, we present a numerical method for solving the Maxwell's equations in bi-isotropic media. We utilize a dual grid FDTD method to provide a stable approach for the simulation of the bi-isotropic media with time and space varying permittivity, permeability and coupling coefficients. Our method is applied to simulate the space time cloak proposed by Martin W McCall et al [*J. Opt. 13*, 024003, 2011]. (Received September 17, 2013)