Abstract Submitted
for the MAR15 Meeting of
The American Physical Society

Creation of optical near-field orbital angular momentum in a gold metasurface CHEN-BIN HUANG, CHING-FU CHEN, CHEN-TA KU, Natl Tsing Hua Univ, MING-YANG PAN, PEI-KUEN WEI, Academia Sinica — Nanocavities in a gold thin film is optimized and arranged to form a metasurface. We demonstrate both numerically and experimentally that surface plasmon vortex carrying optical orbital angular momentum can be generated using linearly-polarized optical excitation.

Chenbin Huang
Natl Tsing Hua Univ

Date submitted: 28 Sep 2014 Electronic form version 1.4