Abstract Submitted
for the TSS13 Meeting of
The American Physical Society

Quantum Vacuum Energy Torque Anomoly HAMILTON CARTER, Texas A&M University — Fulling et al. have found an apparent violation of the relationship between torque and total vacuum energy based on the expectation values of the energy density and pressure of a quantum field inside a conducting wedge as a function of angle. The basic physics underlying the Casimir effect will be presented followed by a brief description of the eigenfunction expansions used to solve Casimir boundary value problems. Finally, details of the torque anomaly will be reviewed.

Hamilton Carter
Texas A&M University

Date submitted: 04 Mar 2013 Electronic form version 1.4