Abstract Submitted
for the MAR09 Meeting of
The American Physical Society

Electromagnetic response of time reversal invariant triplet superconductors RAHUL ROY, CATHERINE KALLIN, JOHN BERLINSKY, McMaster University — We study the effective action of time reversal invariant triplet superconductors in two and three dimensions and obtain the electromagnetic response. The B-phase of Helium 3 and its two dimensional analog are topologically non-trivial phases. The two dimensional triplet superconductor may be regarded as two copies of a chiral $p_x + ip_y$ superconductor. We discuss signatures of the non-trivial topology in the effective action and in the electromagnetic response.

Rahul Roy
McMaster University

Date submitted: 21 Nov 2008 Electronic form version 1.4