**Location of Singularities in tight-binding wave function
of loop-ordered states with Chern numbers** YAN HE, CHANDRA
VARMA, University of California Riverside — As a pedagogic exercise,
we consider time-reversal violating tight-binding wave-functions for Hal-
dane states in the Graphene model and in a Copper-Oxide model. We
locate the singularities in the wave-functions and derive the movement
in their location as well as the change in the Berry phase with the choice
of Gauge.

Yan He
University of California Riverside