

1098-32-240

Richard Alan Wentworth* (raw@umd.edu), Department of Mathematics, University of Maryland, College Park, MD 20742, and **Benjamin Sibley** (bsibley@math.umd.edu), Max Planck Institute for Mathematics, Vivatsgasse 7, 53111 Bonn, Germany. *A singular Bott-Chern formula and gauge theory.*

This talk will present a formula relating the second Chern character of a hermitian holomorphic vector bundle to that of the associated graded sheaf with respect to a filtration by reflexive subsheaves. This generalizes the classical Bott-Chern formula when the subsheaves are holomorphic subbundles. The proof relies on a monotonicity formula and the gauge fixing theorems of Uhlenbeck. (Received January 27, 2014)