

1145-53-2052

Joseph Ansel Hoisington* (jhoisington@smith.edu), Clark Science Center, Smith College, 44 College Lane, Northampton, MA 01063. *On the Total Curvature and Betti Numbers of Complex Projective Manifolds.*

We will show that the sum of the Betti numbers of a complex projective manifold can be bounded above in terms of its total curvature, and we will characterize the complex projective manifolds whose total curvature is minimal. These results extend the classical theorems of Chern and Lashof to complex projective space. (Received September 24, 2018)