

Bott-Chern cohomology and the Hartogs extension theorem for pluriharmonic functions

XIEPING WANG

To Li and Rui'an

Abstract. Let X be a cohomologically $(n - 1)$ -complete complex manifold of dimension $n \geq 2$. We prove a vanishing result for the Bott-Chern cohomology group of type $(1, 1)$ with compact support in X , which combined with the well-known technique of Ehrenpreis implies a Hartogs type extension theorem for pluriharmonic functions on X .

Mathematics Subject Classification (2020): 32D15 (primary); 32D20, 31C10, 32L20 (secondary).