Meeting: 1005, Newark, Delaware, SS 12A, Special Session on Geometric Analysis

1005-53-90 **Vestislav D. Apostolov*** (apostolo@math.uqam.ca), Department of mathematics, UQAM, 201, av. Pres. Kennedy, Montreal, Quebec H2X 3Y7, Canada, and **David Calderbank**, **Paul Gauduchon** and **Christina Tønnesen-Friedman**. *Hamiltonian 2-forms in Kähler Geometry.*

I will introduce the notion of a Hamiltonian 2-form on a Kähler manifold, and present classification results for compact Kähler manifolds admitting such 2-forms. This provides a framework for constructing extremal Kähler metrics on certain projective bundles. (Received February 03, 2005)