

1015-53-152

Vestislav Apostolov*, Department of Mathematics, UQAM, C.P. 8888, Succ. Centre-ville, Montreal, Quebec H3C 3P8, Canada, and **Marco Gualtieri**, Department of Mathematics, M.I.T., 77 Massachusetts Avenue, Cambridge, MA 02139-4307. *Generalized Kaehler manifolds with split tangent bundle.*

I will explain how the generalized Kaehler structures recently introduced by Hitchin and Gualtieri are related to complex manifolds whose holomorphic tangent bundle splits as a direct sum of two sub-bundles. This class of complex manifolds has been introduced and studied by Beauville. We use his results concerning Kaehler surfaces with split tangent bundle to classify completely the compact 4-dimensional generalized Kaehler manifolds of (od,od) type. The talk is based on a joint work with M. Gualtieri. (Received February 02, 2006)