Talk on September 23, 2024, 10:00 am

Speaker: Prof. Vestilav Apostolov, Université du Québec à Montréal

Title: Generalized Kähler solitons as zeroes of moment map

Abstract:

Building on previous work of Goto, I will show that Goto's scalar curvature is the moment map for the action of generalized Hamiltonian automorphisms of the associated Courant algebroid, constrained by the choice of an adapted volume form. This can be seen as an extension to the general K\"ahler setting of E. Inoue's GIT framework of \$\mu\$-scalar curvature in K\"ahler geometry. I will derive an explicit formula for Goto's scalar curvature in terms of the underlying bihermitian geometry, and show that it is constant for generalized Kähler-Ricci solitons. This is a joint work with J. Streets and Y. Ustinovskiy.