

**Contributed Talk on September 25, 2024, 12:00 pm**

Speaker: **Raul Gonzalez Molina, Universidad Politécnica de Madrid**

Title: Pluriclosed flow and the Hull-Strominger system

Abstract:

We define a natural extension of pluriclosed flow aiming at constructing solutions of the Hull-Strominger system. We give several geometric formulations of this flow: as generalized Ricci flow on a transitive Courant algebroid, as a flow of Hermitian metrics on a holomorphic string algebroid, and arising via dimensional reduction of generalized Ricci flow, and prove a number of  $C^\infty$  estimates and global existence and convergence results for the flow on special backgrounds. We then move on to discuss a conjectural relationship of the flow to the geometrization of Reid's fantasy.