Closed G_2 -structures on compact locally homogeneous spaces

Anna Fino
Università di Torino
annamaria.fino@unito.it

 G_2 -structures defined by a closed positive 3-form constitute the starting point in various known and potential methods to obtain holonomy G_2 -metrics on 7-manifolds. Although linear, the closed condition for a G_2 -structure is very restrictive, and no general results on the existence of closed G_2 -structures on compact 7-manifolds are known. In the seminar I will present some results for compact locally homogeneous spaces admitting closed G_2 -structures.