1139-53-188   **Anna Fino*** (`annamaria.fino@unito.it`), via Carlo Alberto 10, 10123 Torino, Italy.
G_2-structures and Ricci solitons.

In this talk we present some general results about G_2-structures whose underlying Riemannian metric is Einstein, as well results on the existence of left invariant closed G_2 forms determining a Ricci soliton metric on nilpotent Lie groups. For closed G_2-structures, we will also show some results related to the Laplacian flow. (Received February 09, 2018)