UNIVERSITÀ DI PARMA

DIPARTIMENTO DI SCIENZE MATEMATICHE, FISICHE E INFORMATICHE

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SEMINARIO

Relatore: Prof.ssa **Anna Maria Fino**, Università di Torino

Luogo: **Sala delle Riunioni,** Plesso di Matematica

Quando: Lunedì 20 Gennaio 2020, **ore 16:30.**

Titolo: **Closed G_2-structures**

Tutti gli interessati sono invitati a partecipare.

Organizzatore: Prof. Adriano Tomassini

Abstract: *G_2-structures on 7-manifolds are defined by a closed positive 3-forms and constitute the starting point in various known and potential methods to obtain holonomy G_2-metrics. 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 review known examples of compact 7-manifolds admitting a closed G_2-structure. Moreover, I will discuss some results on the behaviour of the Laplacian G_2-flow starting from a closed G_2-structure whose induced metric satisfies suitable extra conditions.