

KMPB Workshop: Holomorphic Differentials & RTG 2965 "From geometry to numbers" : Scientific opening

Contribution ID: 6

Type: **not specified**

Gregorio Baldi

Wednesday 20 November 2024 16:00 (1 hour)

Hodge Locus and differential geometry (Ho-Lo-Diff)

I will survey various applications of algebraic differential geometry and Galois theory of foliations to finiteness results in differential geometry. Specifically, I will discuss the study of totally geodesic submanifolds of ball quotients (joint work with Ullmo) and affine invariant submanifolds of strata of abelian differentials (with Urbanik). I will aim to highlight a unifying theme throughout: atypical intersections.