

SEMINAR OF MATHEMATICS

WEDNESDAY March 25, 2015 at 09h00, lecture hall [BI A0 448](#) (CIB)

Prof. **Marco GUALTIERI** (*University of Toronto*) will present a seminar entitled:

"Generalized geometry and its impact on physics"

Abstract:

I will give a tour of the subject of generalized geometry, with a special focus on generalized complex geometry, a kind of geometric structure which interpolates between complex manifolds and symplectic manifolds. It has been particularly useful for understanding mysterious geometric structures occurring in the physics of nonlinear sigma models.

I will also describe how the subject has inspired advances in Dirac and Poisson geometry. Finally, I will outline a number of new developments and outstanding questions for the future.

Lausanne, March 20 2015 / mg