



GAIA Seminar

on Complex Analytic Geometry

 **Title: Stationary holomorphic discs and finite jet determination problems**

 **Speaker : Professor [Lea Blanc-Centi](#)**
(Univeriste de Lille I, France)

 **Abstract**

For many geometric structures, the automorphisms depend only on a finite number of parameters. For instance, biholomorphic automorphisms of a bounded domain in C^n are identical as soon as they coincide up to order one at any given point. On the other hand, biholomorphic automorphisms of a real hypersurface have to coincide up to order two, according to classical results of Chern, Moser, and Tanaka, when the hypersurface is Levi non-degenerate and real-analytic. Here we propose a different proof of this result, by considering a finitely dimensional invariant manifold of holomorphic discs. This new approach gives an improvement regarding the smoothness of the hypersurface.

 **Date : 20:00 - 22:00 , Monday, [2 September](#) ,2013**

 **Place : The GAIA (Math Science building room [106](#))**

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