

*Exposé du jeudi 12 novembre 2015*

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**COMPATIBLE TRIANGULATIONS AND  
RIEMANN-HURWITZ FORMULA FOR FINITE  
MORPHISMS OF  $p$ -ADIC CURVES**

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**Résumé :** For a finite morphisms  $f : Y \rightarrow X$  of quasi-smooth, connected  $k$ -affinoid curves where  $k$  is an algebraically closed, complete non-archimedean field, one is interested to find a Riemann-Hurwitz formula relating the Euler-Poincare characteristics of  $Y$  and  $X$  (computed with respect to a suitable cohomology). A better understanding of such a formula leads to an introduction of the notion of strictly  $f$ -compatible triangulations of  $Y$  and  $X$ , which is closely related to the stability of the map  $f$ .

In this talk we will sketch a simple proof of existence of strictly  $f$ -compatible triangulations which is a slight amelioration of Coleman's theorem on stable maps. Furthermore we will state and prove Riemann-Hurwitz formula for the morphism  $f$  above, and if time permits, we will mention some future applications to  $p$ -adic Index theorem.

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1. Les jeudis matin, de 10 h 30 à 11 h 30, salle 004, IRMAR (bâtiment 22), Université de Rennes 1, Campus de Beaulieu