MINI-COURS : STRATIFICATIONS IN VALUED FIELDS

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1. Résumé

Stratifications are a tool to describe singularities of various kinds of sets - e.g. of algebraic sets $V(\mathbb{C}) \subseteq \mathbb{C}^n$. In this minicourse, I will present "t-stratification" - a new and very strong notion of stratification in valued fields like $\mathbb{C}((t))$ (the field of formal power series) or $\mathbb{Q}_p$ (the p-adic numbers). Those stratifications have several applications: they yield a geometric explanation of the rationality of the Poincaré series associated to V, they entirely classify the isometry type of $V(\mathbb{Q}_p)$, and they provide a new way to construct stratifications of $V(\mathbb{C})$, which have stronger regularity properties than the classical Whitney stratifications. The minicourse will be adapted to the wishes and the previous knowledge of the audience. If desired, the first session will be more "general audience", whereas the later ones will be more specialized.

2. Calendrier

- Jeudi 18 juin de 10h à 12h30 : salle Kampé de Feriet
- Jeudi 25 juin de 10h à 12h30 : salle Kampé de Feriet
- Jeudi 25 juin de 14h à 16h30 : salle Kampé de Feriet