

“SING-2010, RESOLUTION OF SINGULARITIES PROBLEMS”

Programme:

Monday

9:30–10:15 Inscriptions.

10:15–10:45 Formal Welcome.

10:45 Coffee.

11:15–12:15 José Manuel Aroca (Universidad de Valladolid).

Vincent Cossart and the singularities.

12:30–13:30 Heisuke Hironaka (JAMS). *Title to be announced.*

14:00 Lunch.

16:00–17:00 Herwig Hauser (U. Wien).

Prime characteristic versus zero characteristic in the resolution of surfaces.

17:30–18:30 Hiraku Kawanoue (Research Institute for Mathematical Sciences). *Title to be announced.*

Tuesday

9:30–10:30 Steven Dale Cutkosky (University of Missouri).

Monomialization in higher dimensions.

10:45–11:45 Uwe Jannsen (Universität Regensburg).

Strong resolution of singularities for two-dimensional schemes.

11:45 Coffee.

12:30–13:30 Kiran Kedlaya (MIT).

Resolution of turning points of formal flat meromorphic connections.

14:00 Lunch.

16:00–17:00 Mark Spivakovsky (Institut de Mathématiques de Toulouse, Université Paul Sabatier).

On local uniformization of an equicharacteristic quasi-excellent local domain whose residue field k satisfies $[k : k^p] < \infty$.

17:30–18:30 Michael Temkin (IAS).

Inseparable local uniformization.

Wednesday

9:30–10:30 Bernard Teissier (CNRS & Inst. Math. Jussieu).

A viewpoint on local resolution.

10:45–11:45 Jaroslaw Włodarczyk (University of Purdue).

Title to be announced.

11:45 Coffee.

12:30–13:30 Angélica Benito (Universidad Autónoma de Madrid).

Monoidal transforms and invariants of singularities in positive characteristic.

14:00 Lunch.

Thursday

9:30–10:30 Daniel Panazzolo (Université de Haute-Alsace).

Techniques pour la résolution des singularités d'un champ de vecteurs.

10:45–11:45 Fernando Sanz Sánchez (Universidad de Valladolid).

Monomialization of convergent generalized power series and subanalytic geometry.

11:45 Coffee.

12:30–13:30 Ana Reguera López (Universidad de Valladolid).

On divisorial valuations and the space of arcs.

14:00 Lunch.

16:00–17:00 Ben Lichtin.

Monomialization of maps and multivariate asymptotics of fiber integrals.

17:30–18:30 Claude A. Roche (Institut de Mathématiques de Toulouse).

Local Uniformisation of vector fields, three dimensional case.

20:00 Social Dinner.

Friday

9:30–10:30 Olivier Piltant (CNRS & Université de Versailles).

Cossart's strategies for resolution in dimension three.

10:45–11:45 Samar ElHitti (NYC Coll. Tech.).

Formal prime ideals of infinite value and their algebraic resolution.

11:45 Coffee.

12:30–13:30 Franz-Viktor Kuhlmann (University of Saskatchewan).

Artin-Schreier Extensions and Elimination of Wild Ramification.

14:00 Lunch.