

Algèbre commutative et ses interactions avec la géométrie algébrique
Commutative algebra and its interactions with algebraic geometry

A=grande salle, B=petite salle, C=autre salle

Monday:

8:30-9:30 Holger Brenner: Irrational Hilbert-Kunz multiplicities

9:45-10:45 Bernard Teissier: Valuative Cohen theorem and Abhyankar valuations

11:15 -12:15 Andrew Kustin: Artin Gorenstein algebras with linear resolutions

4:30-5:30 Rosa Miro-Roig: Laplace equations and the weak Lefschetz property

5:45-6:25 (A) Karl Schwede: Generic restriction theorems for test ideals

5:45-6:25 (B) Daniel Erman: A monomial approach to asymptotic syzygies

6:35-7:15 (A) Kevin Tucker: F-signature and relative Hilbert-Kunz multiplicity revisited

6:35-7:15 (B) Jason McCullough: Multiple structures with large projective dimension

Tuesday:

8:30-9:30 Gennady Lyubeznik: Local cohomology modules of a smooth \mathbb{Z} -algebra have a finite number of associated primes

9:45-10:45 Anurag Singh: Local cohomology supported at determinantal ideals

11:15 -12:15 Ezra Miller: Binomial irreducible decomposition

4:30-5:30 Dale Cutkosky: Asymptotic multiplicities

5:45-6:25 (A) Shunsuke Takagi: A geometric interpretation of 3-dimensional F-regular graded rings

5:45-6:25 (C) Mitsuyasu Hashimoto: Finite generation of the Picard group of an invariant subring

6:35-7:15 (A) Florian Enescu: The Frobenius complexity of a local ring of prime characteristic and Frobenius operators

6:35-7:15 (B) Jugal Verma: On a theorem of Rees about pseudo-rational local rings

Wednesday:

- 8:30-9:30 Melvin Hochster: Ideals and algebras generated in degree at most four
- 9:45-10:45 Kei-ichi Watanabe: Good ideals of 2-dimensional normal singularities
- 11:15-12:15 Claudia Polini: Iterated socles and integral dependence

Thursday:

- 8:30-9:30 Luchezar Avramov: Resolving Gorenstein quotient rings by DG algebras with Poincare duality
- 9:45-10:45 Irena Peeva: Matrix factorizations
- 11:15-12:15 Hubert Flenner: The Gromov-Winkelmann Theorem for flexible varieties
- 4:30-5:30 Joan Elias: How to compute the Betti numbers of an ideal from its Macaulay inverse system
- 5:45-6:25(A) Uwe Nagel: Blowup algebras associated to Ferrers and threshold graphs
- 5:45-6:25(B) Matteo Varbaro: Lyubeznik's numbers and depth
- 6:35-7:15(A) Peter Schenzel: Elimination for visualizations of blowups of the plane in points
- 6:35-7:15(B) Milena Hering: The F-splitting ratio of a seminormal affine toric variety

Friday:

- 8:30-9:30 Robin Hartshorne: Gorenstein liaison
- 9:45-10:45 Elisa Gorla: Universal Groebner bases for ideals of maximal minors
- 11:15-12:15 Ngo Viet Trung: Krull dimension and monomial orders
- 4:30-5:30 Shiro Goto: Huneke-Wiegand conjecture and the change of rings
- 5:45-6:25(A) Kazuhiko Kurano: The cone spanned by Cohen-Macaulay modules and its applications
- 5:45-6:25(B) Neil Epstein: Lifiable integral closure
- 6:35-7:15(A) Gregory Smith: TBA
- 6:35-7:15(B) Hamid Hassanzadeh: Castelnuovo-Mumford regularity of residual intersections