RIMS Workshop
The 39th Japan Symposium on Commutative Algebra

Organizers : Hidefumi Ohsugi (Kwansei Gakuin University)

Shunsuke Takagi (University of Tokyo)

Ryo Takahashi (Nagoya University)

Program

Nov. 13 (Mon.)

10:00–10:10   Introduction

10:10–10:55   Yuji Yoshino (Okayama University)
Stable 'complex' theory

11:05–11:35   Tokuji Araya (Okayama University of Science)
On the vanishing of self extensions over Cohen-Macaulay local rings

11:45–12:15   Tsutomu Nakamura (Okayama University)
Localization functors and Čech complexes in derived categories

13:50–14:35   Shiro Goto, Shinya Kumashiro (Chiba University)
Ulrich ideals and G-regular rings

14:45–15:15   Shinya Kumashiro (Chiba University)
Ubiquity of Ulrich ideals in dimension one

15:35–16:05   Ryotaro Isobe (Chiba University)
Characterization of GGL rings

16:15–16:45   Naoyuki Matsuoka (Meiji University)
Pseudo-Frobenius numbers versus defining ideals in numerical semigroup rings

Nov. 14 (Tues.)

9:50–10:35   Junzo Watanabe (Tokai University)
The resultants of quadratic binomials

10:45–11:30   Kohji Yanagawa (Kansai University)
When is a Specht ideal Cohen-Macaulay?

11:40–12:10   Yukio Hirayama (Osaka Prefecture University)
Sperner properties of polynomial rings

13:45–14:45   Graham Leuschke (Syracuse University)
A generalization of Knörrer periodicity with an application to noncommutative hypersurfaces

14:55–15:25   Kaori Shimada (Meiji University)
On the category of maximal Cohen-Macaulay modules over $\mathbb{C}[[x,y]]/(x^3)$

15:45–16:15   Naoya Hiramatsu (National Institute of Technology, Kure College)
On degenerations of Cohen-Macaulay modules via matrix representations

16:25–16:55   Tran Thi Phuong (Meiji University)
Normal Sally module of rank one

18:00–20:00   Banquet

Nov. 15 (Wed.)

9:50–10:35   Shigeru Kuroda (Tokyo Metropolitan University)
Non-finitely generated polynomial subrings and birational modifications of $\mathbf{G}_a$-actions

10:45–11:15   Ryuji Tanimoto (Shizuoka University)
Modular invariant rings for p-cyclic group actions

11:25–11:55   Takanori Nagamine (Niigata University)
Derivations and closed polynomials in polynomial rings

13:30–14:30   Anurag Singh (University of Utah)
Hankel determinantal rings have rational singularities

14:40–15:25   Kazuma Shimomoto (Nihon University)
Big Cohen-Macaulay algebra via perfectoid spaces

15:45–16:15   Shinichi Tajima (University of Tsukuba)
Local cohomology and generalized integral dependence relations w.r.t ideals in local rings

16:25–16:55   Koji Nishida (Chiba University)
On the symbolic Rees rings for Fermat ideals

Nov. 16 (Thur.)

9:50–10:35   Kei-ichi Watanabe (Nihon University)
Homogeneous prime element of 2-dimensional normal graded rings

10:45–11:15   Tomohiro Okuma (Yamagata University),
Kei-ichi Watanabe (Nihon University),
Ken-ichi Yoshida (Nihon University)
Normal and core reduction numbers

11:25–11:55   Kohsuke Shibata (University of Tokyo)
Upper bound of the multiplicity of locally complete intersection singularities

13:30–14:15   Mitsuhiro Miyazaki (Kyoto University of Education)
Negative and positive symbolic powers of the canonical ideal of a Hibi ring

14:25–15:10   Yusuke Nakajima (Kavli IPMU)
On the Frobenius push-forward of Hibi rings

15:30–16:00   Akihiro Higashitani (Kyoto Sangyo University)
Generalized F-signature of Hibi rings

16:10–16:55   Kenta Sato (University of Tokyo)
Ascending chain condition for F-pure thresholds

Nov. 17 (Fri.)

9:50–10:35   Osamu Iyama (Nagoya University)
Hypersurface singularities and 2-hereditary algebras

10:45–11:15   Hiroki Matsui (Nagoya University)
Singular equivalence and reconstruction of singular loci

11:25–11:55   Toshinori Kobayashi (Nagoya University)
On delta invariants of certain ideals

13:40–14:10   Futoshi Hayasaka (Okayama University)
On the associated Buchsbaum-Rim multiplicities of a direct sum of cyclic modules

14:20–15:05   Naoki Taniguchi (Waseda University)
On Ratliff-Rush closure of modules

15:15–16:00   Satoshi Murai (Osaka University)
Hessenberg varieties and hyperplane arrangements