RIMS Workshop

The 35th Japan Symposium on Commutative Algebra

2 Mon.-6 Fri. December, 2013

Room 420, Research Institute for Mathematical Sciences, Kyoto University

Monday, 2 December

10:10-10:50 Ryo Takahashi （Nagoya U.）
 Annihilation of Ext modules and generation of derived categories

11:00-11:40 Ryo Kanda (Nagoya U.)
 Partial orders on atom spectra of Grothendieck categories

13:20-14:00 Osamu Iyama （Nagoya.U）
 Geigle-Lenzing weighted projective spaces

14:10-14:50 Ken-ichi Yoshida (Nihon U.), Shiro Goto (Meiji U.), Kazuho Ozeki (Yamaguchi U.), Ryo Takahashi (Nagoya U.), Kei-ichi Watanabe (Nihon U.)
 Ulrich ideals on hypersurfaces

15:00-15:40 Takahiro Numata （Nihon U.）
 Ulrich ideals of Gorenstein numerical semigroup rings

15:50-16:30 Chikashi Miyazaki （Saga U.）
 A variant of Horrocks criterion for vector bundles on multiprojective space through regularity method

Tuesday, 3 December

9:20-10:00 Mitsuyasu Hashimoto （Okayama U.）
 The Picard and the class groups of an invariant subring

10:10-10:50 Shigeru Kuroda （Tokyo Metropolitan U.）
 The automorphism group of a UFD over the kernel of a locally nilpotent derivation

11:00-11:40 Akiyoshi Sannai （U.Tokyo）
 Invariant subring of the Cox rings of K3 surfaces

13:20-14:20 ［invited talk］ Peter Symonds （U. Manchester）
 Group actions on rings and the Cech complex

14:30-15:10 Ken-ichiroh Kawasaki （Nara U. Education）
 On the characterizations of cofinite complexes

15:20-16:10 ［survey talk］ Junzo Watanabe （Tokai U.）
 What do we know about the conjecture "Complete intersections have the strong Lefschetz property"?

16:20-17:00 Akihito Wachi （Hokkaido U. Education）
 The Lefschetz property of coinvariant rings of complex reflection groups

Wednesday, 4 December

9:10-10:00 ［survey talk］ Kei-ichi Watanabe （Nihon U.）
 Introduction to commutative algebra of singularities

10:10-10:50 Masataka Tomari （Nihon U.）
 On Demazure's construction of finite Abelian coverings of normal graded rings

11:00-11:40 Shunsuke Takagi （U.Tokyo）, Vasudevan Srinivas (Tata Inst.)
 Nilpotency of Frobenius and divisor class groups

13:20-14:20 ［invited talk］ Kevin Tucker （U. Illinois）
 Rationality of the F-Pure threshold in power series rings

14:30-15:10 Yusuke Nakajima （Nagoya U.）
 Dual F-signature of Cohen-Macaulay modules over quotient surface singularities

15:20-16:00 Kei-ichi Watanabe (Nihon U.), Tomohiro Okuma(Yamagata U.) Ken-ichi Yoshida(Nihon U.)
 Good ideals on 2-dimensional normal singularities

16:10-16:50 Toshiaki Maeno（Meijo U.）, Yasuhide Numata（Shinshu U.)
    Finite geometry and the Lefschetz property

Thursday, 5 December

10:00-10:40 Kazuho Ozeki (Yamaguchi U.), Shiro Goto (Meiji U.)
    The first Euler characteristics versus the homological degrees

10:50-11:30 Naoki Taniguchi (Meiji U.), Shiro Goto (Meiji U.), Ryo Takahashi (Nagoya U.), Hoang Le Truong (IMVAST)
    Huneke-Wiegand conjecture of rank one with the change of rings

13:30-14:10 Koji Nishida (Chiba U.), Kosuke Fukumuro (Chiba U.), Hirofumi Kume (Chiba U.)
    On modules of linear type

14:20-15:00 Shiro Goto (Meiji U.), Jooyoun Hong, (Southern Connecticut State U.), Wolmer V. Vasconcelos (Rutgers U.)
    On the vanishing of j-multiplicities

15:10-15:50 Kazunori Matsuda（Rikkyo U., JST CREST）
    Strong Koszulness of toric rings assosiated with stable set polytopes of trivially perfect graphs

16:00-16:40 Kyouko Kimura (Shizuoka U.), Naoki Terai (Saga U.)
    Arithmetical rank of Gorenstein squarefree monomial ideals of height three

18:00-20:00   Banquet at
  Kyoto University Clock Tower Centennial Hall

Friday, 6 December

9:00-10:00 ［invited talk］Mutsumi Saito（Hokkaido U.）
    The ring of differential operators of an affine semigroup algebra

10:10-12:00 ［short communications］
    10:10-10:35 Futoshi Hayasaka (Hokkaido U. Education)

    A computation of Buchsbaum-Rim multiplicities in a special case
    10:35-11:00 Naoya Hiramatsu (Kure Natl. Col. Tech.)
      On degenerations of graded Cohen-Macaulay modules
    11:10-11:35 Tokuji Araya (Okayama U. Science)
      Thick subcategories of stable categories over graded Gorenstein rings
    11:35-12:00 Akihiro Higashitani (Osaka U.)
      Normality of edge rings and Minkowski sums

13:30-14:10 Kazuma Shimomoto (Meiji U.)
    Almost purity theorem and the homological conjectures

14:20-15:00 Vivek Sadhu (Indian Inst. Tech.)
    Subintegrality, invertible modules and polynomial extension

15:10-15:50 Kazuhiko Kurano (Meiji U.)
    On the limit of Frobenius in the Grothendieck group

Organizers
    Kiriko Kato (Osaka Prefecture University)
    Keiichiro Iima (Nara National College of Technology)
    Ken-ichiroh Kawasaki   (Nara University of Education)
    Jun-ichi Nishimura (Osaka Electro-Communication University)
    Mitsuhiro Miyazaki (Kyoto University of Education)
    Kohji Yanagawa (Kansai University)

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