

# The 31st Symposium on Commutative Algebra Japan

24<sup>th</sup>-27<sup>th</sup> November, 2009, at Hotel Awina Osaka

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Tuesday, November 24

14:10-14:40

Mitsuhiro Miyazaki (Kyoto U. of Education)

“Step-by-step deformation of an ideal to its initial ideal”

14:40-15:10

Mitsuyasu Hashimoto (Nagoya U.)

“F-pure homomorphisms, strong F-regularity, and F-injectivity”

15:25-16:10

Kazuhiko Kurano (Meiji U.)

“Regularity of the symbolic power of space monomial curves”

16:30-17:00

Kyouko Kimura (Osaka U. /JST CREST)

“Arithmetical rank of Cohen-Macaulay squarefree monomial ideals of height two”

17:10-18:10

Tim Römer (U. of Osnabrück)

“Koszul homology and syzygies of Veronese subalgebras”

19:00-21:00

Free Discussions

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Wednesday, November 25

9:00- 9:45

Satoshi Murai (Yamaguchi U.), Naoki Terai (Saga U.)

"H-vectors of simplicial complexes and Serre's conditions"

10:00-10:45

Naoki Terai (Saga U.), Ken-ichi Yoshida (Nagoya U.)

“Cohen-Macaulayness for symbolic powers of edge ideals”

11:00-12:00

Tim Römer (U. of Osnabrück)

“Generic tropical varieties”

14:00 -14:15

Takafumi Shibuta (Rikkyo U. /JST CREST)

“Gröbner bases of contraction ideals”

14:15-14:30

Hidefumi Ohsugi (Rikkyo U. /JST CREST)

“The toric ring and the toric ideal arising from a nested configuration”

14:40- 15:10

Kazufumi Eto (Nippon Inst. of Technology)

“Set-theoretic complete intersection monomial curves II”

15:20-16:05

Nguyen Cong Minh (Hanoi National U. of Education)

“Buchsbaum property of symbolic and ordinary powers of Stanley-Reisner Ideals”

16:30-16:45

Takahiro Chiba (Nagoya U.), Kazunori Matsuda (Nagoya U.), Masahiro Ohtani (Nagoya U.)

“On F-thresholds of some determinantal rings”

16:45 -17:15

Kazuma Shimomoto

“F-coherent rings and related results”

17:30-18:15

Kei-ichi Watanabe (Nihon U.)

“A-invariants of normal graded Gorenstein rings and varieties with even canonical class”

19:00-21:00

Free Discussions

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Thursday, November 26

9:30-10:00

Shin-ichiro Iai (Hokkaido U. of Education)

“Gorenstein Rees algebras over rings of depth one having finite local cohomology”

10:00-10:30

Shiro Goto (Meiji U.), Jun Horiuchi (Meiji U.), Hideto Sakurai (Meiji U.)

“Quasi-socle ideals in Buchsbaum rings”

10:45-11:15

Shiro Goto (Meiji U.), Satoru Kimura (Meiji U.), Tran Thi Phuong (Ton Duc Thang U.)

“Quasi-socle ideals and Goto numbers of parameters”

11:15-11:45

Hideto Sakurai (Meiji U.)

“On quasi-socle ideals in a Gorenstein local ring”

14:00-14:45

Shiro Goto (Meiji U.), Kazuho Ozeki (Meiji U.)

“Cohen-Macaulayness versus vanishing of the first Hilbert coefficient of parameter ideals”

15:00-15:30

Futoshi Hayasaka (Meiji U.)

“A note on the Buchsbaum-Rim function of a parameter module”

16:00-16:30

Tokuji Araya (Nara U. of Education)

“Gorensteinness of a ring which admits a module of finite homological dimension”

16:30-17:00

Kei-ichiro Iima (Okayama U.)

“On hypersurfaces of countable Cohen-Macaulay type”

17:15-18:15

Igor Burban (U. of Bonn)

“Cohen-Macaulay modules over normal surface singularities”

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Friday, November 27

9:00-9:45

Ryo Takahashi (Shinshu U.)

“Classifying thick subcategories of Cohen-Macaulay modules”

10:00-10:45

Atsushi Takahashi (Osaka U.)

“Triangulated categories for isolated hypersurface singularities and mirror symmetry”

11:00-12:00

Igor Burban (U. of Bonn)

“Cohen-Macaulay modules over non-isolated surface singularities”

14:00-14:30

Yuji Yoshino (Okayama U.), Takeshi Yoshizawa (Okayama U.)

“Subfunctors of identity functor and t-structures”

14:30-15:00

Hiroki Abe (U. of Tsukuba), Mitsuo Hoshino (U. of Tsukuba)

“Gorenstein orders associated with modules”

15:15-16:00

Osamu Iyama (Nagoya U.)

“Tilting and cluster tilting for quotient singularities”