Workshop The 11th Japan-Vietnam Joint seminar on Commutative Algebra, by and for young mathematicians

Institute of Mathematics, VAST 28.3.2023 – 30.3.2023

Sponsors

- Institute of Mathematics, VAST
- International Centre for Research and Postgraduate Training in Mathematics, Institute of Mathematics, VAST

Location: Room 301, A5 Building, Institute of Mathematics, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet Road, Vietnam

Organizing Committee

- Japan
 - Naoki Endo (Meiji University)
 - Naoyuki Matsuoka (Meiji University)
 - Kazuho Ozeki (Yamaguchi University)
- Vietnam
 - Doan Trung Cuong (Institute of Mathematics, VAST)
 - Le Thi Thanh Nhan (MOET)
 - Tran Nam Trung (Institute of Mathematics, VAST)
 - Hoang Le Truong (Institute of Mathematics, VAST)

PROGRAM

Tuesday, March 28, 2023

Morning

Chair: Tran Nam Trung Secretary: Nguyen Thi Anh Hang

09:00 - 09:50	Kei-ichi Watanabe (Nihon University, Japan) Normal reduction numbers and Gorenstein property of normal tangent cones of 2 dimensional integrally closed ideals
10:10 - 10:40	Tran Quang Hoa (Hue University, Vietnam) <i>Powers of sums and their associated primes</i>
10:55 – 11:25	Ryo Ishizuka (Tokyo Institute of Technology, Japan) <i>A mixed characteristic analogue of the perfection of rings</i>
11:40 – 12:10	Hop D. Nguyen (Institute of Mathematics, VAST, Vietnam) <i>On regularity and projective dimension up to symmetry</i>

Afternoon

Chair: Doan Trung Cuong Secretary: Do Van Kien

14:00 - 14:50	Ryo Takahashi (Nagoya University, Japan) Faltings' annihilator theorem for complexes over CM-excellent rings
15:10 – 15:40	Yuya Otake (Nagoya University, Japan) On spherical modules and torsionfree modules
15:55 - 16:25	Shinnosuke Ishiro (Nihon University, Japan) Perfectoid towers and their tilts
16:40 – 17:10	Le Thi Thanh Nhan (MOET, Vietnam) Ascent and descent of Artinian modules under flat base changes
17:30	Banquet

Wednesday, March 29, 2023

Morning

Chair: Hop D. Nguyen Secretary: Nguyen Thi Thanh Tam

09:00 – 09:50	Ngo Viet Trung (Institute of Mathematics, VAST, Vietnam) <i>Multiplicity sequence and integral dependence</i>
10:10 - 10:40	Sora Miyashita (Osaka University, Japan) Levelness vs nearly Gorensteinness of homogeneous domains
10:55 – 11:25	Hoang Ngoc Yen (Thai Nguyen University of Education, Vietnam) <i>On the sectional genera and Cohen-Macaulay rings</i>
11:40 – 12:10	Kaito Kimura (Nagoya University, Japan) On the asymptotic depths of localizations of modules

Afternoon

Chair: Tran Nguyen An Secretary: Nguyen Thi Anh Hang

14:00 - 14:50	Pham Hung Quy (FPT University, Vietnam) <i>Tight Hilbert Polynomial</i>
15:10 - 15:40	Hiroki Matsui (Tokushima University, Japan) <i>Categorical entropy of the Frobenius pushforward functor</i>
15:55 - 16:45	Naoki Endo (Meiji University, Japan) Generalization of Gorenstein rings – from the past to the future –

Thursday, March 30, 2023

Morning

Chair: Hoang Le Truong Secretary: Do Van Kien

09:00 - 09:50	Tran Nam Trung (Institute of Mathematics, VAST, Vietnam) <i>Regularity of symbolic powers of square-free monomial ideals</i>
10:10 - 10:40	Koji Matsushita (Osaka University, Japan) <i>Conic divisorial ideals of toric rings and applications to stable set rings</i>
10:55 – 11:25	Nguyen Thu Hang (Thai Nguyen College of Sciences, Vietnam) <i>Stability index of depth function</i>
11:40 – 12:10	Akiyoshi Tsuchiya (Toho University, Japan) <i>Perfectly contractile graphs and quadratic toric rings</i>

Afternoon

Chair: Pham Hung Quy Secretary: Nguyen Thi Thanh Tam

14:00 – 14:30	Nguyên Công Minh (HUST, Vietnam) On the approximately Cohen-Macaulay property of symbolic powers of Stanley-Reisner ideals
14:45 – 15:15	Shinya Kumashiro (Oyama College, Japan) Study of \mathbb{Z}_2 graded rings
15:35 – 16:05	Do Van Kien (Hanoi Pedagogical University 2, Vietnam) <i>The Koszul property and free resolutions over g-stretched local rings</i>
16:20 - 17:10	Futoshi Hayasaka (Okayama University, Japan) Ideals of indecomposable integrally closed modules over two-dimensional regular local rings