

The 51st Symposium on Ring Theory and Representation Theory (2018)

Second Announcement

This is the second announcement of the 51st Symposium on Ring Theory and Representation Theory. We would like to inform you about the details of the symposium, including the programs and the conference dinner. You can refer to Japan Ring Theory Home Page

<https://ring-theory-japan.com/ring/japan/>
for more informations.

This Symposium is supported by the following grants.

Grant-in-Aid for Scientific Research (B) 25287001, JSPS
Hideto Asashiba (Shizuoka University)

Grant-in-Aid for Scientific Research (B) 16H03923, JSPS
Osamu Iyama (Nagoya University)

and

Grant-in-Aid for Scientific Research (C) 18K03207, JSPS
Hideto Asashiba (Shizuoka University)

Grant-in-Aid for Scientific Research (C) 17K05202, JSPS
Yoshitomo Baba (Osaka Kyoiku University)

Grant-in-Aid for Scientific Research (C) 18K03238, JSPS
Erik Darpo (Nagoya University)

Grant-in-Aid for Scientific Research (C) 17K05207, JSPS
Tsunekazu Nishinaka (University of Hyogo)

Program organizer Izuru Mori (Shizuoka University)

Assistant program organizers

Ayako Itaba (Tokyo University of Science),

Isao Kikumasa (Yamaguchi University)

Date: September 19 (Wed.) – September 22 (Sat.), 2018

Place: Okayama University of Science

Multipurpose Hall in the 50th year commemorative building (4F)

1-1 Ridaicho, Kita-ku, Okayama-shi, 700-0005 Japan

Local Organizer: Tokuji Araya (Okayama University of Science)

E-mail: araya@das.ous.ac.jp

Program Organizer: Izuru Mori (Shizuoka University)

E-mail: mori.izuru@shizuoka.ac.jp

Assistant Program Organizers:

Ayako Itaba (Tokyo University of Science)

E-mail: itaba@tus.ac.jp

Isao Kikumasa (Yamaguchi University)

E-mail: kikumasa@yamaguchi-u.ac.jp

Conference dinner: Date: September 20 (Thu.) 17:30
Place: Loung in A1 building (Okayama University of Science)
Fee: 4,000 Yen

If you wish to attend the conference dinner, please let us know by sending e-mails to the following address by September 7 (Fri.). We look forward to your attendance.

Tokuji Araya: araya@das.ous.ac.jp

Invited Speakers

Hiroyuki Nakaoka (Kagoshima University)

Kohji Yanagawa (Kansai University)

Yu Qiu (Tsinghua University)

Information on the conference venue and accommodations

1) **How to get to Okayama University of Science**

Please refer to the following web page.

<http://www.ous.ac.jp/english/access/>

2) **Venue**

The conference will be held at Multipurpose Hall in the 50th year commemorative building (4F). The building is number 13 enclosed within a yellow circle in the following campus map.

<http://www.ous.ac.jp/english/campus-map/>

3) **Accommodations**

It is preferable to reserve your hotel sooner, since our event will be held during the tourist season. Below is one of the commonly used hotel reservation sites in Japan. For example, enter “Okayama” and choose “Okayama, Okayama Prefecture, Japan”. Then it will show you the list of accommodations available in that area.

<http://travel.rakuten.com/>

The 51st Symposium on Ring Theory and Representation Theory

Program

September 19 (Wednesday)

9:40–10:10 Mitsuo Hoshino (University of Tsukuba), Hirotaka Koga (Tokyo Denki University), Noritsugu Kameyama (Salesian Polytechnic)

Frobenius ring homomorphisms

10:20–10:50 Yoshihiro Otokita (Chiba University)

Centers of modular group algebras

11:00–12:00 Kohji Yanagawa (Kansai University)

Homological methods in combinatorial commutative algebra I

13:10–13:40 Yusuke Nakajima (The University of Tokyo)

Finite dimensional algebras arising from dimer models and their derived equivalences

13:50–14:20 Toshitaka Aoki (Nagoya University)

Torsion classes for algebras with radical square zero

14:30–15:00 Norihiro Hanihara (Nagoya University)

Auslander correspondence for triangulated categories

15:20–15:50 Sota Asai (Nagoya University)

The chamber structures of the Grothendieck groups coming from bricks

16:00–17:00 Yu Qiu (Tsinghua University)

Decorated marked surfaces

September 20 (Thursday)

9:40–10:10 Hiroki Matsui (Nagoya University)

Connectedness of the Balmer spectrum of the right bounded derived category of a commutative noetherian ring

10:20–10:50 Tokuji Araya (Okayama University of Science), Kei-ichiro Iima (Nara College), Maiko Ono (Okayama University), Ryo Takahashi (Nagoya University)

Dimensions of singular categories of hypersurfaces of countable representation type

- 11:00–12:00** Kohji Yanagawa (Kansai University)
Homological methods in combinatorial commutative algebra II
- 13:10–13:40** Hiroyuki Minamoto (Osaka Prefecture University)
Resolution of DG-modules and their applications for commutative DG-algebras
- 13:50–14:20** Haruhisa Enomoto (Nagoya University)
Relations for Grothendieck groups and representation-finiteness
- 14:30–15:00** Yuya Mizuno (Shizuoka University)
Sortable elements and torsion pairs for quivers
- 15:20–15:50** Takahide Adachi (Osaka Prefecture University), Aaron Chan (Nagoya University)
A geometric model of Brauer graph algebras
- 16:00–16:30** Kaoru Motose
Cyclotomic polynomials
- 17:30–** Conference dinner

September 21 (Friday)

- 9:40–10:10** Tomohiro Itagaki (Tokyo University of Science)
Batalin-Vilkovisky algebra structures on the Hochschild cohomology of self-injective Nakayama algebras
- 10:20–10:50** Kazunori Nakamoto (University of Yamanashi), Takeshi Torii (Okayama University)
An application of Hochschild cohomology to the moduli of subalgebras of the full matrix ring
- 11:00–12:00** Hiroyuki Nakaoka (Kagoshima University)
Some remarks on Avella-Alaminos-Geiss invariants of gentle algebras
- 13:10–13:40** Masahisa Sato (Aichi University & Yamanashi University)
On projective modules with unique maximal submodule
- 13:50–14:20** Gangyong Lee, Mauricio Medina-Bárceñas (Chungnam National University)
On (finite) Σ -Rickart modules: On a module theoretic setting of the (semi-)hereditary property of rings

14:30–15:00 Mayu Tsukamoto (Osaka City University)

A strongly quasi-hereditary structure on Auslander–Dlab–Ringel algebras

15:20–15:50 Kengo Miyamoto (Osaka University)

Components of the stable Auslander-Reiten quiver for a symmetric order over a complete discrete valuation ring

16:00–17:00 Yu Qiu (Tsinghua University)

\mathbb{X} -stability conditions on Calabi-Yau- \mathbb{X} categories

September 22 (Saturday)

9:40–10:10 Shigeo Koshitani, Taro Sakurai (Chiba University)

On certain Morita invariants involving commutator subspace and radical powers

10:20–10:50 Ayako Itaba (Tokyo University of Science), Masaki Matsuno (Shizuoka University)

The defining relations of geometric algebras of Type EC

11:00–11:30 Akira Masuoka (University of Tsukuba)

Quotients G/H is super-symmetry