

## RIMS workshop:

# Noncommutative Algebraic Geometry and Related Topics

**Dates:** September 25 (Mon) - September 29 (Fri), 2017

**Place:** Room 420, RIMS, Kyoto, Japan

**Organizers:**

Colin Ingalls (University of New Brunswick)

Izuru Mori (Shizuoka University)

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Izuru Mori (Grant-in-Aid for Scientific Research (C) 16K05097)

Shinnosuke Okawa (Grant-in-Aid for Young Scientists (A) 16H05994)

Kazushi Ueda (Grant-in-Aid for Challenging Exploratory Research 16K13743)

### Program:

#### 9/25(Mon)

10:00–10:45 Registration

10:45–11:45 **James Zhang** ADE Dynkin diagrams in noncommutative algebra and geometry

13:15–14:15 **Daniel Krashen** Extremely indecomposable division algebras

14:30–15:30 **Brent Pym** Holonomic Poisson manifolds and deformations of elliptic algebras

15:45–16:45 **Shinnosuke Okawa** Noncommutative rigidity of the moduli stack of stable pointed curves

#### 9/26(Tue)

9:30–10:30 **Quanshui Wu** Poisson Hopf algebras and co-Poisson Hopf algebras

10:45–11:45 **Michio Yoshiwaki** On Iwanaga-Gorenstein algebras of finite Cohen-Macaulay type

13:15–14:15 **Yusuke Nakajima** Non-commutative crepant resolutions for some Hibi rings

14:30–15:30 **Pieter Belmans** Blowups in fat points and Hirzebruch surfaces

15:45–16:45 **Kazushi Ueda** Moduli of non-commutative Hirzebruch surfaces

#### 9/27(Wed)

9:30–10:30 **Hiroyuki Minamoto** Tilting bundles on Fano algebras

10:45–11:45 **Kenta Ueyama** Noncommutative projective schemes having a homogeneous coordinate ring of finite global dimension

Afternoon: Free

#### 9/28(Thu)

9:30–10:30 **Eleonore Faber** Endomorphism rings of conic modules over toric algebras

10:45–11:45 **Theo Raedschelders** The Frobenius morphism in invariant theory

13:15–14:15 **Alice Rizzardo** Triangulated categories without enhancements

14:30–15:30 **Spela Spenko** The Frobenius morphism in invariant theory II

15:45–16:45 **Alexey Bondal** Noncommutative moduli of objects in abelian categories

#### 9/29(Fri)

9:30–10:30 **William Crawley-Boevey** The Deligne Simpson problem revisited

10:45–11:45 **Osamu Iyama** Quotients of triangulated categories and Equivalences of Buchweitz, Orlov and Amiot-Guo-Keller