

# KOBE - LYON SUMMER SCHOOL IN MATHEMATICS 2015



## ON QUIVERS : COMPUTATIONAL ASPECTS AND GEOMETRIC APPLICATIONS

KOBE, JULY 21 - 31 2015

### WEEK 1. NON-COMMUTATIVE COMPUTATIONS

Computation in D-modules, Rouchdi Bahloul and Nobuki Takayama  
Non-commutative Gröbner bases, Philippe Malbos

### WEEK 2. GEOMETRICAL APPLICATIONS AND INTEGRABLE SYSTEMS

Representations of quivers, Kenji Iohara

Quiver varieties, Yoshiyuki Kimura

Quiver varieties and moduli spaces of connexions, Daisuke Yamakawa and Kazuki Hiroe

Quiver varieties and control theory, Masa-Hiko Saito

### ORGANIZERS

Masa-Hiko Saito and Nobuki Takayama (Graduate School of Science, Kobe University)  
Kenji Iohara and Philippe Malbos (Institut Camille Jordan, Université Claude Bernard Lyon 1)

[www2.kobe-u.ac.jp/~mhsaito/kobelyon2015/](http://www2.kobe-u.ac.jp/~mhsaito/kobelyon2015/)

Supported by

JSPS Grant-in-Aid for Scientific Research (S) No 24224001 (Masa- Hiko Saito, Kobe University)

