

# Mini-School on Differential Geometry and Integrable Systems

September 11 - 13, 2023

## Supports

- Mathematical Society of Japan
- OCAMI (MEXT Joint Usage/Research Center on Mathematics and Theoretical Physics)

Principal Investigator: Masashi Yasumoto

- JSPS Grant-in-Aid for Early-Career Scientists No.20K14314

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The Mathematical  
Society of Japan



OCAMI

## Organizers

Wayne Rossman (Kobe University)

Masashi Yasumoto (Tokushima University)

## Program

### September 11

- |             |  |
|-------------|--|
| 10:00-11:40 | <b>Free Discussion</b>   |
| 14:20-15:00 | Shota Hamanaka (Mitsubishi Electric Corporation Advanced Technology R&D Center)<br><i>Upper bound preservation of the total scalar curvature in a conformal class</i>              |
| 15:30-16:10 | Yuta Sasahara (Tokyo Metropolitan University)<br><i>Inhomogeneous isoparametric hypersurfaces of OT-FKM-type in the pseudo-sphere</i>  |
| 16:40-17:20 | Taika Okuda (Tokyo University of Science)<br><i>Deformation quantization with separation of variables for <math>G_{2,4}(\mathbb{C})</math> and its twisted Fock representation</i> |
| 17:40-18:20 | Tsukasa Takeuchi (Tokyo University of Science)<br><i>On the integrable systems characterized by certain <math>(1, 1)</math> tensor fields</i>                                      |

## September 12

- 10:00-11:00 **Free Discussion**
- 11:00-11:40 Subaru Nomoto (Ritsumeikan University)  
*Generalized Bishop frames on regular curves on 4-dimensional Euclidean space*
- 15:30-16:10 Naoya Suda (Kobe University)  
*Ricci flow on discrete surfaces of revolution*
- 16:40-17:20 Masaya Hara (Kobe University)  
*Darboux transformations of curves in the Lorentz-Minkowski plane*
- 17:40-18:20 Thomas Raujouan (Kobe University)  
*A catenoid with two planar ends*
- 19:00- **Banquet**

## September 13

- 10:00-11:00 **Free Discussion**
- 11:00-12:00 Konrad Polthier (Free University of Berlin)  
*Discretizations of the Gyroid and of CMC surfaces*