

# PDE workshop at Tsukuba

**Date:** October 12–14, 2019

**Place:** Tsukuba University, Central area, Area 1, Institutes of Natural Sciences B0110

1-1-1 Tennodai, Tsukuba, Ibaraki 305-8577 Japan

([https://www.tsukuba.ac.jp/en/access/tsukuba-campus/map\\_south](https://www.tsukuba.ac.jp/en/access/tsukuba-campus/map_south))

## Program

### October 12

- 13:45–13:50    Opening
- 13:50–14:40    Masaaki MIZUKAMI (Tokyo Univ. Sci.)  
The parabolic–elliptic chemotaxis case as a limit of the parabolic–parabolic chemotaxis system
- 14:50–15:40    Ikki FUKUDA (Hokkaido Univ.)  
Global existence and asymptotic behavior of the solution to the viscous Fornberg–Whitham equation
- 15:50–16:40    Masahiko SHIMOJO (Okayama Univ. Sci.)  
Blow-up of radially symmetric solutions for a semilinear heat equation on hyperbolic space –Sobolev subcritical–
- 17:00–18:00    Yekaterina EPSHTEYN (Dept. Math., Univ. Utah)  
Grain structure, grain growth and evolution of the grain boundary network

### October 13

- 09:40–10:30    Yukihide TADANO (Univ. Tokyo)  
Spectral and scattering theory for discrete Schrödinger operators
- 10:45–11:45    Tadayoshi ADACHI (Kobe Univ.)  
【keynote lecture】空間的に一様な電場内での量子散乱について
- 13:15–13:35    Yoshiki FUKUOKA (Nihon Univ.)  
ケーキ層の表現と弱  $L^p$  空間
- 13:35–13:55    Kazuki TAKEBUCHI (Nihon Univ.)  
An eigenvalue of 2-D Schrödinger operator with potential-measure

- 14:05–14:25 Jun-nosuke ARAKI (Univ. Tsukuba)  
Continuous Shearlet Transform について
- 14:25–14:45 Hiroshi HASHIMOTO (Univ. Tsukuba)  
Quaternion Fourier transform and Clifford-Fourier transform
- 14:55–15:45 Fumihiko HIROSAWA (Yamaguchi Univ.)  
時間に依存する伝播速度を持つ波動方程式の低周波領域における評価
- 15:55–16:45 Yukihiro SEKI (Osaka City Univ.)  
藤田方程式の Type II 爆発解に関するこれまでの進展
- 17:00–18:00 Tadayoshi ADACHI (Kobe Univ.)  
【keynote lecture】空間的に一様な電場内での量子散乱について
- 18:30– Banquet

## October 14

- 9:40–10:30 Hideo NAKAZAWA (Nippon Medical School)  
大きな摂動項を伴うヘルムホルツ方程式の一様リゾルベント評価とその応用
- 10:40–11:30 Michiyuki WATANABE (Niigata Univ.)  
Inverse scattering problems for a time-dependent Hartree-Fock equation with an external potential
- 11:40–12:30 Tamotsu KINOSHITA (Univ. Tsukuba)  
On directional frames having Lipschitz continuous Fourier transforms
- 12:30–12:35 Closing

## Organizer:

Masashi MIZUNO (Nihon Univ.)

1-8-14 Kanda-Surugadai, Chiyoda-Ku, Tokyo 101-8308, Japan

Tamotsu KINOSHITA (Univ. Tsukuba)

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