

# 17th Autumn Workshop on Number Theory

## ”Explicit theory of Jacobi forms and modular forms of several variables”

5th – 9th November 2014

at Hakuba High Mount Hotel (Hakuba, Nagano, JAPAN)

### Organizers

Hiroki Aoki (Tokyo Univ. of Science)

Shuichi Hayashida (Joetsu Univ. of Education)

Hiroshi Sakata (Waseda Univ. Senior High School)

### Program

#### 5th Nov. (Wed.)

– 16:30 Reception

16:30 – 18:30 Yuki Iwahori (Kanazawa Univ.)  
Basic properties of Jacobi forms (\*)

19:00 – Dinner

#### 6th Nov. (Thu.)

9:30 – 10:30 Takashi Yoshinaga (Ritsumeikan Univ.)  
On the mass connected with primitive solutions of  
quadratic Diophantine equations

10:45 – 11:45 Hiroki Aoki (Tokyo Univ. of Science)  
Structure theorem of the space of automorphic  
forms of several variables (\*)

12:00 – Lunch

14:30 – 15:30 Martin Westerholt-Raum (MPI)  
Formal Fourier Jacobi expansions

15:45 – 16:45 Bernhard Heim (GUTech in Oman)  
Jacobi forms, Lifts and Symmetries

17:00 – 18:00 Nils-Peter Skoruppa (Univ. of Siegen)  
Theta Blocks (\*)

- 18:30 –** Dinner
- 7th Nov. (Fri.)**
- 9:30 – 10:30** Hiroshi Sakata (Waseda Univ. Senior High School)  
A trace formula for Jacobi forms and its applications (\*)
- 10:45 – 11:45** Winfried Kohnen (Univ. of Heidelberg)  
Applications of Jacobi forms
- 12:00 –** Lunch  
Free discussion
- 18:30 –** Dinner (Party)
- 8th Nov. (Sat.)**
- 9:30 – 10:30** Shuichi Hayashida (Joetsu Univ. of Education)  
Relations among Fourier-Jacobi coefficients of Siegel-Eisenstein series and their applications
- 10:45 – 11:45** Eric Stade (Univ. of Colorado Boulder)  
Automorphic forms, archimedean L factors, Whittaker functions, and Barnes integrals
- 12:00 –** Lunch
- 14:30 – 15:30** Siegfried Böcherer (Univ. of Mannheim)  
Klingen Eisenstein series for Siegel modular forms and for Jacobi forms
- 15:45 – 16:45** Nils-Peter Skoruppa (Univ. of Siegen)  
Explicit constructions of Jacobi forms over number fields
- 17:00 – 18:00** Fredrik Strömberg (Univ. of Nottingham)  
Vector valued Hilbert modular forms and Shimizu L-functions
- 18:30 –** Dinner
- 9th Nov. (Sun.)**
- 9:30 – 11:00** Tomoyoshi Ibukiyama (Osaka Univ.)  
Jacobi forms of general degree
- 11:15 –** Lunch

(\*): survey talk