

# Workshop on nonlinear PDEs

## –PDE approach to network and related topics–

### Organizers:

Kazushige Nakagawa (Tohoku Univ.)

Takehisa Hasegawa (Tohoku Univ.)

Shigeaki Koike (Tohoku Univ.)

**Dates :** June 27th – 29th, 2013

**Place :** Kawai Hall, Tohoku University

### –PROGRAM –

June 27th

13:40 – 14:40

Katsuyuki Ishii (Kobe University) (石井 克幸)

Convergence of an approximation scheme for the mean curvature flow

14:50 – 15:50

Atsushi Nakayasu (University of Tokyo)(中安 淳)

Hamilton-Jacobi equations in metric spaces

16:10 – 17:10

Yoshihito Kohsaka (Muroran Institute of Technology)(高坂 良史)

Mean curvature flow with a triple junction in multi-dimensional case

June 28th

10:00 – 11:00

Fabio Camilli (Università Roma La Sapienza)

Hamilton-Jacobi equations on networks and applications I

11:15 – 12:15

Julio Rodriguez (École Polytechnique Fédérale de Lausanne)

Adaptation in networks of periodic dynamical systems

lunch

14:00 – 15:00

Fabio Camilli (Università Roma La Sapienza)

Hamilton-Jacobi equations on networks and applications II

15:10 – 16:10

Seiichiro Kusuoka (Tohoku University)(楠岡 誠一郎)  
Diffusion processes in thin tubes and their limits on graphs

16:30 – 17:30

Hitoshi Ishii (Waseda University) (石井 仁司)  
Asymptotic analysis for the eikonal equation with the dynamical boundary conditions

19:00–

Banquet

June 29th

10:10 – 11:10

Fabio Camilli (Università Roma La Sapienza)  
Hamilton-Jacobi equations on networks and applications III

11:20 – 12:20

Hiroya Nakao (Tokyo Institute of Technology) (中尾 裕也)  
Pattern formation in network-organized reaction-diffusion systems

12:20 –

closing

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Contact

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