

Zhejiang-Tohoku (浙江-東北) International workshop  
**Nonlinear Partial Differential Equations 2017**

**Date** : March 17 (Fri) 2017, 10:25 ~ March 18 (Sat) 2017, 15:32

**Place** : Kawai Hall, Mathematical Institute, Tohoku University

**Address** : Aramaki Aoba 6-3, Aobaku Sendai, 980-8578, JAPAN

**Tel** :022-795-7706

**Web** :<http://ogawa-kibans.math.tohoku.ac.jp/en/conference.html>

**Access** :Sendai City Subway, 「Aobayama」 Station, 10 min. by walking

<https://www.math.tohoku.ac.jp/access/k-hall.html>

## Program

### March 17th (Fri) 3月17日(金)

**10:25–10:27** : Takayoshi Ogawa (Tohoku Univ.)  
「Opening address」

**10:30–11:10** : Daoyuan Fang (Zhejiang Univ.)  
「Some recent results on the 3D Navier-Stokes equations」

**11:20–12:00** : Keiichi Kato (Tokyo Univ. of Science)  
「Application of wave packet transform to dispersive equations」

**12:00–14:00** : Lunch Break

**14:00–14:40** : Ruizhao Zi (Central China Norm Univ.)  
「Global solutions to the isentropic compressible Navier-Stokes equations with a class of large initial data」

**14:50–15:30** : Hiroyuki Takamura (Future Univ. Hakodate)  
「Blow-up for semilinear wave equations with non-effective damping」

**15:30–16:00** : Coffee Break

**16:00–16:40** : Huanyao Wen (South China Univ of Tech)

「Global existence of weak solution to a two-phase model with large initial data」

**16:50–17:30** : Tohru Ozawa (Waseda Univ)

「Hardy inequalities in  $L^p(\mathbb{R}^n)$ 」

## March 18th (Sat) 3月18日(土)

**10:30–11:10** : Ting Zhang (Zhejiang Univ.)

「Global solutions of modified one-dimensional Schrödinger equation」

**11:20–12:00** : Soichiro Katayama (Osaka Univ.)

「Global existence for systems of nonlinear wave and Klein-Gordon equations with compactly supported data」

**12:00–14:00** : Lunch break

**14:00–14:40** : Qidi Zhang (East China Univ. Science Tech.)

「Almost global existence for nonlinear Klein-Gordon equations on the circle」

**14:50–15:30** : Masakazu Kato (Muroran Inst. Tech)

「Asymptotic behavior of solutions for the damped wave equation with a nonlinear convection term」

**15:30–15:32** : Nakao Hayashi (Osaka Univ.)

「Closing address」

Organizers:

Daoyuan Fang, Keiichi Kato, Nakao Hayashi,

Takayoshi Ogawa, Ting Zhang

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