

# Workshop on Harmonic analysis and Nonlinear Evolution Equations



23 February 2018, 10:00 ~ 18:30  
Aula Magna and Sala Seminari,  
Department of Mathematics, Pisa University



## Speakers :

**Tohru Ozawa** (Waseda University) 10:00–10:45

On improved Hardy inequalities

**Nicola Visciglia** (University of Pisa) 11:00–11:45

On the growth of Sobolev norms in compact setting

**Jacopo Bellazzini** (University of Sassari) 12:00–12:45

Long time dynamics for semirelativistic NLS and half wave equation

**Fulvio Ricci** (SNS Pisa) : 14:30–15:15

About restriction of the Fourier transform

**Mirko Tarulli** (Technical University and Institute of

Mathematics and Informatics, Sofia) 15:30–16:15

$H^2$ -scattering for systems of weakly coupled fourth-order NLS equations in low space dimensions

**Norihisa Ikoma** (Kanazawa University) : 16:30–17:00

Uniqueness and nondegeneracy of ground states to scalar field equations

**Gianmarco Brocchi** (University of Birmingham) 17:15–17:45

Existence of extremizers for a Strichartz estimate for the fourth order Schrodinger equation

**Quoc Hung Nguyen** (SNS Pisa) 18:00–18:30

Singular integral operators of Kakeya type and quantitative estimates with BV vector fields



## Organizers:

Jacopo Bellazzini (University of Sassari)

Kazumasa Fujiwara (SNS Pisa)

Vladimir Georgiev (University of Pisa)

[http://people.dm.unipi.it/~georgiev/convegni/Pisa2018/PISA\\_2018.htm](http://people.dm.unipi.it/~georgiev/convegni/Pisa2018/PISA_2018.htm)

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• Multiscale Analysis, Modeling and Simulation

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