

# Analysis, PDE's, and Geometry:

## A conference in honor of Sergiu Klainerman

January 26—28, 2016

*Princeton University*

A01 McDonnell Hall

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### Tuesday, January 26, 2016:

- 9:30-10:30 a.m.: **Peter Constantin**  
(Princeton University)  
Title: "On the inviscid limit"
- 10:30-11 a.m.: *COFFEE BREAK/Brush Gallery*
- 11-12 p.m.: **Carlos Kenig**  
(University of Chicago)  
Title: "The energy critical wave equation"
- 12-1:30 p.m.: *LUNCH BREAK*
- 1:30-2:30 p.m.: **Igor Rodnianski**  
(Princeton University)  
Title: *TBA*
- 2:45-3:45 p.m.: **Jean Bourgain**  
(The Institute for Advanced Study)  
Title: "Decoupling in harmonic analysis and applications to PDE and number theory"
- 3:45-4 p.m.: *TEA/Brush Gallery*
- 4-5 p.m.: **Jean-Yves Chemin**  
(Université Pierre et Marie Curie, Laboratoire Jacques Louis Lions)  
Title: "The Fourier transform on the Heisenberg group: A distribution of view"

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**Wednesday, January 27, 2016:**

- 9:30-10:30 a.m.:     **Gustav Holzegel**  
                          (Imperial College London)  
Title: “The Linear Stability of the Schwarzschild Solution under  
                          Gravitational Perturbations”
- 10:30-11 a.m.:        *COFFEE BREAK/Brush Gallery*
- 11-12 p.m.:           **Gigliola Staffilani**  
                          (Massachusetts Institute of Technology)  
Title: “The Study of Wave and Dispersive Equations: Random Versus  
                          Determination”
- 12-1:30 p.m.:        *LUNCH BREAK*
- 1:30-2:30 p.m.:      **Alex Ionescu**  
                          (Princeton University)  
Title: “Global solutions of the gravity-capillary water wave system in 3  
                          dimensions”
- 2:45-3:45 p.m.:      **Terence Tao**  
                          (University of California, Los Angeles)  
Title: “Finite time blowup for an averaged Navier-Stokes equation”
- 3:45-4 p.m.:         TEA/Brush Gallery
- 4-5 p.m.:             **Jeremie Szeftel**  
                          (Université Pierre et Marie Curie, Laboratoire Jacques Louis Lions)  
Title: “Remarks on the nonlinear stability of Schwarzschild”

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**Thursday, January 28, 2016:**

- 9:30-10:30 a.m.:     **Gerhard Huisken**  
                          (Mathematisches Forschungsinstitut Oberwolfach)  
Title: *TBA*

- 10:30-11 a.m.: *COFFEE BREAK/Brush Gallery*
- 11-12 p.m.: **Mihalis Dafermos**  
(Princeton University)  
Title: *TBA*
- 12-1:30 p.m.: *LUNCH BREAK*
- 1:30-2:30 p.m.: **Simon Brendle**  
(Stanford University)  
Title: "Minimal tori in three-sphere and the Lawson conjecture"
- 2:45-3:45 p.m.: **Joachim Krieger**  
(École Polytechnique Férale de Lausanne)  
Title: "Radiation versus dynamic bubbles in critical nonlinear wave equations."
- 3:45-4 p.m.: TEA/Brush Gallery
- 4-5 p.m.: **Daniel Tataru**  
(University of California, Berkeley)  
Title: *TBA*

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**Friday, January 29, 2016:**

- 9:30-10:30 a.m.: **Gustavo Ponce**  
(University of California, Santa Barbara)  
Title: "On special regularity properties of solutions to a class of dispersive equations"
- 10:30-11 a.m.: *COFFEE BREAK/Brush Gallery*
- 11-12 p.m.: **Charles Fefferman**  
(Princeton University)  
Title: "Breakdown of smoothness for fluid interfaces"