

# Invited Lectures

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## Lectures at Congress

1. International Congress of Mathematical Physics, PDE section, Geneva August 2-7, 2021.

## Lecture Series and Minicourses:

4. Workshop on Boundary Layers Theory and Related Topics, Shanghai Jiao Tong University, December 16-23, 2018.
3. Mini-course on Fluids, Vietnam Institute for Advanced Study in Mathematics, Hanoi, June 30 - July 12, 2016
2. Summer School in PDEs, Vietnam Institute for Advanced Study in Mathematics, Hanoi, July 14 - Aug 7, 2014
1. The 2013 Peking Applied Mathematics Summer School, Peking University, July 2013 (20 hours).

## Plenary lectures at conferences/workshops:

22. The 5th NEPDE conference, Shanghai Jiao Tong University, December 1-4, 2020
21. Workshop on Euler and Navier-Stokes Equations, the Fields Institute, September 14 - 18, 2020
20. Conference on Long Time Behavior and Singularity Formation in PDEs, NYU Abu Dhabi, May 25-29, 2020
19. Workshop on Formation of small scales in nonlinear PDEs, CSCAMM, Maryland University, Sep 9-12, 2019.
18. The 60th birthday conference in honor of Kevin Zumbrun, Institut Henri Poincaré, July 1-5, 2019
17. Midwest PDE Seminar (83rd edition), Indiana University, March 30-31, 2019
16. Workshop on PDEs, University of Pittsburgh, December 1, 2018
15. Southern California Analysis and PDE Conference, UC San Diego, June 2-3, 2018
14. The 80th birthday conference in honor of Walter Strauss, Brown University, May 14-18, 2018
13. Workshop on Cosmology and Plasma Physics, Wolfgang Pauli Institute, Vienna, Austria, December 18-23, 2017
12. Workshop on Water Waves, ICERM, Brown, April 24-28, 2017
11. Workshop on Dynamics of small scales in fluids, ICERM, Brown, Feb 13-17, 2017
10. Conference on Advances in kinetic and fluid dynamics transport, ICES, UT Austin, Feb 22-26, 2016.
9. Workshop on Euler and Navier-Stokes, Wolfgang Pauli Institute, Vienna, December 14-18, 2015
8. Workshop on Vlasov-Poisson in cosmology, Wolfgang Pauli Institute, Vienna, Dec. 6-11, 2015
7. Conference on Recent Progress in Collisionless Models, Imperial College, London, Sep. 7-11, 2015
6. Summer school on “Schrödinger equations”, Wolfgang Pauli Institute, Vienna, August 3-7, 2015.
5. Conference on Shock waves and beyond, IHP, Paris, June 23-26, 2015 .
4. RTG Undergraduate Workshop in PDEs, Brown, Feb 21-22, 2015.
3. The 13th Red Raider Mini-Symposium on “Aspects of Fluid Dynamics”, Texas Tech Univ., Oct 25-27, 2013.
2. Workshop on Analysis and applications of evolutionary PDEs, UC Riverside, May 5-6, 2012.
1. Spring School on Kinetic Theory and Fluid Mechanics, Lyon, France. March 26-30, 2012.

## Seminars / colloquia at research institutions:

72. University College London / Imperial College London, Pure Analysis and PDE Seminar, April 30, 2021
71. ETH Zurich, PDE and Mathematical Physics Seminar, April 29, 2021
70. Caltech, Analysis Seminar, April 15, 2021
69. City University of Hong Kong, PDE lectures, Nov 28th, 2020
68. Texas A&M, Nonlinear PDEs Seminar, Oct 6th, 2020
67. Yale, Analysis Seminar, Oct 1st, 2020
66. Penn State, CAM colloquium, Sep 29, 2020
65. Stanford, Analysis and PDE Seminar, May 5th, 2020
64. Shanghai Tech University, IMS PDE seminar, May 28th, 2020
63. Shanghai Jiao Tong University, INS colloquium, May 5th, 2020
62. UC San Diego, Analysis seminar, Jan 7th, 2020
61. Joint ENS Paris / Paris 6 / Paris 7 Analysis and PDEs seminar, June 25, 2019
60. Rutgers University, Nonlinear Analysis seminar, April 30, 2019
59. Princeton, Analysis seminar, Feb 4, 2019
58. University of Pennsylvania, Analysis seminar, Sep 27, 2018
57. Universität Leipzig, Mathematisches Institut, Analysis seminar, April 26, 2018
56. Max Planck Institute, Oberseminar, April 24, 2018
55. Georgia Institute of Technology, PDE seminar, April 10, 2018
54. Princeton, Analysis of Fluids seminar, March 29, 2018.
53. Carnegie Mellon, CNA seminar, March 6, 2018
52. Penn State, CCMA Luncheon Seminar, Feb 5th, 2018
51. Rutgers University, Nonlinear Analysis seminar, Sep 19, 2017
50. Central China Normal University, Wuhan, PDE seminar, July 27, 2017
49. University of Paris Sud (Paris 11), Math at Orsay, PDE seminar, June 22, 2017
48. Southern Univ of Science and Technology, Shenzhen, China, Math and Engineering seminar, June 16, 2017
47. Univ of Natural Sciences, Hochiminh city, PDE seminar, June 5, 2017
46. ICERM, Brown University, semester program lecture, April 14, 2017
45. Maryland, CSCAMM seminar, Feb 22, 2017
44. Penn State, Complex fluids seminar, Nov 29, 2016
43. Courant, NYU, Analysis seminar, Oct 27, 2016
42. Penn State, Hyperbolic PDEs, Oct 27, 2015
41. Oxford, Math Institute, PDE CDT seminar, May 21, 2015
40. Institut des Hautes Études Scientifiques (IHES), Laurent Schwartz PDE seminar, May 19, 2015
39. Carnegie Mellon, CNA seminar, April 23, 2015

38. Penn State, Fluid Dynamics Research Consortium seminar, Feb 13, 2015
37. Princeton, Analysis of Fluids seminar, Dec 11th, 2014.
36. Univ Michigan, Differential Equations seminar, Oct 30, 2014.
35. Penn State, Math colloquium, Oct 9, 2014
34. Univ of Illinois at Urbana-Champaign, Harmonic Analysis and Diff. Equations seminar, Oct 7, 2014.
33. Institut Henri Poincaré, joint PDE seminar between Paris 6, Paris 7, and ENS, June 10, 2014
32. Univ. Tennessee, math colloquium, March 7, 2014
31. Brown Univ, PDE seminar, Feb 7, 2014
30. Drexel University, PDE and Applied Math seminar, Nov 4, 2013
29. Shanghai Jiao Tong University, PDE seminar, July 16, 2013
28. Indiana University, PDE seminar, March 4, 2013
27. University of Pittsburgh, PDE seminar, Feb 25, 2013
26. Univ of Natural Sciences, Hochiminh city, PDE seminar, Aug 21, 2012.
25. Seoul National University, PDE seminar, Aug 16, 2012.
24. Université Paris–Dauphine, Analyse et Probabilités, June 12, 2012.
23. United States Naval Academy, Colloquium, April 26, 2012
22. UNC - Chapel Hill, Analysis / PDE seminar, April 18, 2012
21. Univ. Michigan, Differential equations seminar, February 2nd, 2012
20. Univ Illinois at Chicago, Mathematics Colloquium, Jan 23rd 2012
19. Penn State, Mathematics Colloquium, Jan 2012
18. Michigan State, Mathematics Colloquium, Jan 11th, 2012
17. Univ. Wisconsin at Madison, Mathematics Colloquium, December 7th, 2011
16. Georgia Tech, PDE seminar, November 22nd, 2011.
15. Penn State, Computational and Applied Mathematics Colloquium, November 18th, 2011.
14. Texas A & M, Applied Math Seminar, November 14th, 2011.
13. UT Austin, Analysis seminar, November 2nd, 2011.
12. University of Maryland (College Park), PDE/Applied Math seminar, Sep. 30th, 2010.
11. Brown University, Brown/Boston PDE seminar, Sep. 15th, 2010.
10. Brown University, Math department, PDE seminar, Sep. 10th, 2010.
9. IIMAS–UNAM, Mexico, Applied Math Colloquium, June 2010.
8. IRMAR, Rennes I, PDE seminar, March 2010.
7. Brown/Paris 6 video–conference seminar, Laboratoire J–L. Lions, Paris, March 2010.
6. l’Institut Fourier (Grenoble I), Séminaire de Physique Mathématique, March 2010.
5. Ecole polytechnique, Séminaire X-EDP, November 2009.
4. Institut Math. de Jussieu (Paris VI-VII), Analyse non-linéaire et EDP seminar, October 2009.

3. Columbia University, Applied Mathematics Colloquium, January 2009.
2. Univ. Illinois at Urbana-Champaign, Harmonic Analysis and Math. Phys. seminar, November 2008.
1. Indiana University, IU PDE seminar, September 2008.

**Short mini-symposium talks at conferences:**

7. Special session on *Recent advances in hydrodynamic stability* at Equadiff 2019, Leiden University, July 8-12, 2019.
6. Special session SS11 on *Dynamics of Fluids and Nonlinear Waves*, The 10th AIMS conference on Dynamical System and Differential Equations, Madrid, July 7-11, 2014.
5. Special session SS43 on *Harmonic Analysis Tools for Fluid Mechanics*, The 10th AIMS conference on Dynamical System and Differential Equations, Madrid, July 7-11, 2014.
4. Special session on *PDEs of Fluid Dynamics*, the AMS meeting in St. Louis, October 18-20, 2013.
3. Special session on *Stability of nonlinear waves: what's next?*, the 8th IMACS International Conference, the University of Georgia, March 24-28, 2013.
2. Special session on *Stability of nonlinear waves* at SIAM Conference on Dynamical Systems (DS11), Snowbird, Utah. May 2011 (also an organizer of a special session).
1. Special session on *Stability of Traveling Waves* at SIAM Conference on Dynamical Systems (DS09), Snowbird, Utah. May 2009