

Invited Talks

Roland Donninger

“Self-similar blowup in nonlinear wave equations”

Conference “Riemann 200: Mathematics and Physics”
Leibniz Universität Hannover, Germany, March 18, 2026

“Self-similar blowup for mass supercritical Schrödinger equations”

Conference “Recent progress in asymptotic stability of solitons and related problems”
Universidad de Magallanes, Punta Arenas, Chile, January 6, 2026

“Self-similar blowup for the cubic Schrödinger equation”

Workshop “Analysis and Computation of dispersive PDE and fluid dynamics”
Institut Henri Poincaré, Paris, France, June 19, 2025

“Hyperboloidal coordinates and blowup for wave equations”

Virtual Infinity Seminar, April 12, 2024 (online)

“Optimal blowup stability for wave maps”

University of Innsbruck, Austria, January 22, 2024

“Optimal blowup stability for wave maps”

Conference “Harmonic Analysis and Partial Differential Equations”
University of Bonn, Germany, May 30, 2023

“Optimal blowup stability for wave maps”

Georgia Institute of Technology, USA, April 25, 2023 (online)

“Self-similar Blowup in Wave Equations”

Summer School “Geometric Dispersive PDEs”
University Center Obergurgl, Austria, September 28 & 29, 2022

“Optimal Blowup Stability for Wave Maps”

Conference “Waves in Venice”
Ca’ Foscari University of Venice, Italy, September 6, 2022

“Singularity formation in supercritical wave equations”

Journées EDP, Obernai, France, May 31, 2022

“Optimal Blowup Stability for Wave Maps”

University of Science and Technology of China, May 19, 2022 (online)

- “Optimal Blowup Stability for Wave Maps”**
Mathematical Physics and Analysis Seminar
IST, Klosterneuburg, Austria, May 12, 2022
- “Optimal Blowup Stability for Wave Maps”**
Conference “Recent trends in nonlinear and dispersive equations”
Banach Center Bedlewo, Poland, May 5, 2022
- “Optimal Blowup Stability for Wave Maps”**
Conference on Mathematics of Wave Phenomena
Karlsruhe Institute of Technology, Germany, February 15, 2022 (online)
- “Supercritical Wave Maps”**
TU Vienna, Austria, January 22, 2020
- “Singularity formation in dispersive wave equations”**
Salzburg Mathematics Colloquium
University of Salzburg, Austria, December 5, 2019
- “Singularity formation in dispersive wave equations”**
ÖMG Tag der Mathematik 2019
TU Graz, Austria, November 22, 2019
- “Strichartz estimates for the one-dimensional wave equation”**
General Relativity, Geometry, and Analysis: Beyond the First 100 Years after Einstein
Institut Mittag-Leffler, Djursholm, Sweden, October 29, 2019
- “Strichartz estimates for the one-dimensional wave equation”**
Conference Nonlinear effects in PDEs and related problems
École Polytechnique, Palaiseau, France, May 23, 2019
- “Strichartz estimates for the one-dimensional wave equation”**
Workshop Harmonic Analysis and Partial Differential Equations
HIM Bonn, Germany, May 7, 2019
- “Strichartz estimates for the one-dimensional wave equation”**
University of Cambridge, UK, February 25, 2019
- “Self-similar blowup in supercritical wave equations”**
Plenary Talk
Conference on Mathematics of Wave Phenomena
Karlsruhe Institute of Technology, Germany, July 25, 2018
- “Linear stability of the Skyrmion”**
Conference Nonlinear Dirac equations and related problems
University of Bielefeld, Germany, May 29, 2018
- “Fourier analysis, Strichartz estimates, and dispersive PDE”**
University of Vienna, Austria, April 25, 2018

- “On the Cauchy problem for semilinear wave equations”**
PDE Afternoon
Vienna University of Technology, Austria, January 16, 2018
- “A globally stable blowup profile for supercritical wave maps”**
Conference Recent Trends in PDE
King’s College London, UK, January 9, 2018
- “Singularity formation in dispersive wave equations”**
University of Vienna, Austria, December 6, 2017
- “A globally stable blowup profile for supercritical wave maps”**
EPF Lausanne, Switzerland, November 24, 2017
- “A globally stable blowup profile for supercritical wave maps”**
University of Vienna, Austria, November 16, 2017
- “Self-similar blowup for supercritical wave maps”**
Summer School and Workshop Harmonic Analysis, Spectral Theory and PDEs
La Sapienza - Università di Roma, Italy, September 12, 2017
- “Hyperboloidal similarity coordinates and blowup for wave maps”**
Workshop Nonlinear Waves and Dispersive Equations
Mathematisches Forschungszentrum Oberwolfach, Germany, June 13, 2017
- “Global aspects of nonlinear dispersive wave equations”**
LMU Munich, Germany, July 11, 2016
- “Strichartz estimates in similarity coordinates”**
IHES, France, June 16, 2016
- “Global aspects of nonlinear dispersive wave equations”**
University of Vienna, Austria, May 30, 2016
- “Self-similar blowup in nonlinear wave equations”**
University of Strasbourg, France, February 25, 2016
- “Hyperboloidal evolution for the cubic wave equation”**
University of Bielefeld, Germany, January 8, 2016
- “Self-similar blowup in nonlinear wave equations”**
Basel-Zurich Seminar in Analysis
University of Basel, Switzerland, November 20, 2015
- “Global aspects of nonlinear dispersive wave equations”**
University of Heidelberg, Germany, October 6, 2015
- “Blowup results for nonlinear wave equations”**
Annual Meeting of the German Mathematical Society (DMV)
Hamburg, Germany, September 22, 2015

- “Self-similar blowup in (super)critical wave equations”**
University of Bielefeld, Germany, June 11, 2015
- “Blowup results for nonlinear wave equations”**
University of Vienna, Austria, April 23, 2015
- “The Cauchy problem for semilinear wave equations”**
University of Vienna, Austria, April 23, 2015
- “Self-similar blowup in nonlinear wave equations”**
Distinguished PDE Lecture
Vienna University of Technology, Austria, December 16, 2014
- “Self-similar blowup in nonlinear wave equations”**
University of Bonn, Germany, December 2, 2014
- “Self-similar blowup in nonlinear wave equations”**
University of Bielefeld, Germany, December 1, 2014
- “Self-similar blowup in supercritical wave equations”**
HIM Bonn, Germany, June 10, 2014
- “A spectral mapping theorem for perturbed Ornstein-Uhlenbeck operators”**
EPF Lausanne, Switzerland, March 7, 2014
- “Global aspects of nonlinear wave equations”**
University of Birmingham, UK, January 27, 2014
- “Globale Aspekte nichtlinearer Wellengleichungen”**
CAU Kiel, Germany, January 16, 2014
- “Some recent global results on nonlinear wave equations”**
Universität Zürich, Switzerland, November 22, 2013
- “Globale Eigenschaften von nichtlinearen Wellengleichungen”**
TU Darmstadt, Germany, October 25, 2013
- “Globale Eigenschaften von nichtlinearen Wellengleichungen”**
Leibniz Universität Hannover, Germany, October 17, 2013
- “Recent global results for nonlinear wave equations”**
ESI Vienna, Austria, September 27, 2013
- “Nondispersive decay for the cubic wave equation”**
Workshop Nonlinear Waves and Dispersive Equations
Mathematisches Forschungszentrum Oberwolfach, Germany, August 12, 2013
- “Recent global results on nonlinear wave equations”**
LMU Munich, Germany, February 5, 2013
- “Nonscattering solutions and infinite-time blowup for the critical wave equation”**
Centro Stefano Franscini, Ascona, Switzerland, July 3, 2012

“Nonscattering solutions and blowup at infinity for the critical wave equation”
University of Basel, Switzerland, April 25, 2012

“Stable self-similar blowup for co-rotational wave maps”
ESI Vienna, Austria, January 24, 2011

“Stable self-similar blowup for wave maps”
University of Rochester, NY, USA, October 29, 2010

“Price’s Law for Schwarzschild black holes”
ESI Vienna, Austria, January 19, 2010

“On Price’s Law for Schwarzschild manifolds”
University of Pennsylvania, Philadelphia, PA, USA, October 20, 2009

“Stability of self-similar solutions of semilinear wave equations”
University of Vienna, Austria, November 25, 2008

“The Radial Wave Operator in Similarity Coordinates”
University of Vienna, Austria, May 29, 2008

“The Radial Wave Operator in Similarity Coordinates”
Max-Planck-Institut für Gravitationsphysik, Golm, Germany, May 14, 2008