

Scientific talks

Invited lectures

3. Spring School on Soliton Dynamics, Texas A&M University, USA, 14.-16.03.2024 (3 Lectures)
2. Introductory Workshop, Thematic Programme on Spectral Theory and Mathematical Relativity, Erwin Schrödinger Institute, Vienna, Austria, 19.-20.06.2023 (4 Lectures)
1. Summer School on Applied Analysis 2019, Technische Universität Chemnitz, 23.-27.09.2019 (3 Lectures)

Invited talks at conferences, workshops and seminars

48. *Self-similar blowup for the 3d cubic NLS*. Workshop on Nonlinear Dispersive Equations: Advances and Perspectives, CIRM, Marseille, France, 13.05.2025.
47. *Stable blowup for supercritical wave maps into perturbed spheres*. Workshop on Hyperbolic & Dispersive Equations on Curved Geometries: Connections to Physics and General Relativity, Simons Center for Geometry and Physics, Stony Brook, USA, 07.04.2025.
46. *Self-similar blowup for the 3d cubic NLS*. Analysis & PDE Seminar, Gran Sasso Science Institute, l'Aquila, Italy, 03.12.2024.
45. *Self-similar blowup for the 3d cubic NLS*. Workshop on Spectral Analysis of Schrödinger Operators, ICERM, Brown University, USA, 20.08.2024.
44. *Singularity formation for the three-dimensional Keller-Segel system*. Salzburg Mathematics Colloquium, Austria, 29.06.2023.
43. *Singularity formation for the three-dimensional Keller-Segel system*. Conference Harmonic Analysis and PDE, Bonn, Germany, 01.06.2023.
42. *On blowup in supercritical PDEs*. Third Austrian Day of Women in Mathematics (virtual), 28.02.2023.
41. *Nontrivial self-similar blowup for the supercritical quadratic wave equation*. Conference “Waves in Venice”, Italy, 06.09.2022.
40. *Singularity formation for the three-dimensional Keller-Segel system*. Oberwolfach Workshop “Nonlinear Waves and Dispersive Equations”, Germany, 30.06.2022.
39. *Non-trivial self-similar blowup for supercritical nonlinear wave equation*. Ghent Methusalem Junior Analysis & PDE Seminar, Ghent University, Belgium (virtual), 01.03.2022.

38. *Nontrivial self-similar blowup in energy supercritical nonlinear wave equations*. Seminar Talk, University of Wisconsin-Madison, USA (virtual), 21.02.2022.
37. *Nontrivial self-similar blowup in energy supercritical wave equations*. ICERM Workshop, Brown University, Providence, USA, 10.12.2022.
36. *Self-similar singularities in supercritical wave equations and heat flows*. Tag der Mathematik (Austrian Mathematical Society), Vienna (virtual), 19.11.2022.
35. *Self-similar blowup in energy supercritical wave equations*. Minisymposium on the occasion of the 80th birthday of Peter C. Aichelburg, Erwin-Schrödinger Institute, Vienna, Austria, 04.11.2021.
34. *Co-dimension one stable blowup in energy supercritical wave equations*. DMV-ÖMG Conference 2021, Minisymposium on Dynamics, stability and control in infinite dimensions, Passau, Germany (virtual), 30.09.2021.
33. *Co-dimension one stable blowup and threshold phenomena for supercritical wave equations*. Seminar, University of Bielefeld, Germany (virtual), 29.01.2021.
32. *Co-dimension one stable blowup and threshold phenomena for supercritical wave equations*. Seminar, University of Paris 13, France (virtual), 22.01.2021.
31. *Stable self-similar blowup for the Yang-Mills heat flow*. 3. FHST Meeting on Geometry and Analysis (virtual), 03.07.2020
30. *Stable self-similar blowup for the Yang-Mills heat flow*. Conference on “Long Time Behavior and Singularity Formation in PDEs”, Center for Stability, Instability, and Turbulence, NYU Abu Dhabi (virtual), 28.05.2020.
29. *Threshold for blowup in supercritical wave equations*. BIRS Workshop on “Dynamics in Geometric Dispersive Equations and the Effects of Trapping, Scattering and Weak Turbulence”, Banff, Canada, 04.02.2020.
28. *Self-similar singularities in geometric heat flows*. “11th Itinerant Workshop in PDEs”, Hausdorff Center for Mathematics, Bonn, Germany, 23.01.2020.
27. *Singularity formation in supercritical PDEs*. University of Innsbruck, Austria, 15.01.2020.
26. *Blowup for the supercritical cubic wave equation*. Workshop “Computational complex analysis”, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, 10.12.2019.
25. *Nonlinear asymptotic stability of homothetically shrinking Yang-Mills solitons*. Conference “Control and Dynamics of PDEs”, IRMA, Strasbourg, France, 29.09.2019.
24. *Threshold for blowup for the supercritical cubic wave equation*. Workshop “Analytical and numerical methods for dispersive PDEs”, Institut de Mathématiques de Bourgogne, Dijon, France, 17.10.2019.
23. *Threshold for blowup for the supercritical cubic wave equation*. DMV Tagung, Minisymposium “Nonlinear Evolution Equations and Applications”, Karlsruhe, Germany, 25.09.2019.

22. *Nonlinear asymptotic stability of homothetically shrinking Yang-Mills solitons.* ÖMG Tagung, Section “Partial Differential Equations and Calculus of Variations”, Dornbirn, Austria, 17.09.2019.
21. *Singularity formation in nonlinear wave equations.* 14th International Conference on Mathematical and Numerical Aspects of Wave Propagation, Minisymposium “Wave Phenomena: Analysis and Numerics”, Vienna, Austria, 29.08.2019.
20. *Self-similar blowup for the focusing energy-supercritical wave equation.* Follow-Up-Workshop “Harmonic Analysis and Partial Differential Equations”, Hausdorff Research Institute for Mathematics, Bonn, Germany, 07.05.2019.
19. *Selbstähnliche Singularitäten in geometrischen Evolutionsgleichungen,* Seminar, University of Frankfurt, Germany, 17.04.2019
18. *Non-trivial self-similar blowup for the focusing energy-supercritical wave equation.* Oberwolfach Workshop “Nonlinear Evolution Equations: Analysis and Numerics”, Germany, 05.02.2019.
17. *Singularity formation in supercritical wave equations.* Oberseminar Analysis, University of Stuttgart, Germany, 07.12.2018.
16. *Co-dimension one stable blowup for the supercritical cubic wave equation.* Seminar, EPFL Lausanne, Switzerland, 23.11.2018.
15. *Co-dimension one stable blowup in supercritical wave equations.* Workshop “Nonlinear Dirac equations and related problems”, Bielefeld, Germany, 28.-30.05.2018.
14. *Self-similar blowup in supercritical geometric evolution equations.* Oberseminar Analysis, University of Bielefeld, Germany, 04.05.2018.
13. *Stable self-similar blowup in nonlinear wave equations.* Workshop “Women in PDEs”, Karlsruhe Institute of Technology, Germany, 28.04.2017.
12. *Stable self-similar blowup in supercritical evolution equations.* Conference “Singularity formation and long-time behavior in dispersive PDEs”, Bonn, Germany, 14.-18.03.2016.
11. *Stable blowup for radial wave equations with focusing nonlinearity.* Seminar, Gravitational Physics, University of Vienna, Austria, 22.01.2016.
10. *Stable blowup for nonlinear wave equations.* Workshop of the doctoral school “Dissipation and Dispersion in nonlinear PDEs”, Rust, Austria, 21.01.2016.
9. *Stable blowup for supercritical wave equations in odd space dimensions.* Workshop “Longtime behaviour of nonlinear waves”, Bielefeld, Germany, 08.-12.06.2015.
8. *Blowup in semilinear wave equations.* Oberseminar Analysis, Mathematical Institute, University of Bonn, Germany, 25.06.2015.
7. *A spectral mapping theorem for perturbed Ornstein-Uhlenbeck operators.* Workshop “Gradient flows: from theory to application”, Edinburgh, UK, 20.-24.04.2015.

6. *Stable blowup in nonlinear wave equations*. Mathematical Physics Seminar, University of Vienna, Austria, 19.03.2015.
5. *Self-similar blowup in nonlinear evolution equations*. Workshop on Real Analysis, Hausdorff Research Institute for Mathematics, Bonn, Germany, 14.-18.07.2014.
4. *Flatness-based trajectory planning for semilinear parabolic PDEs*. 51st IEEE Conference on Decision and Control, Maui, USA, 10.-13.12.2012.
3. *Stable self-similar blowup for semilinear wave equations*. Conference “Nonlinear Hamiltonian PDEs”, Ascona, Switzerland, 01.-06.07.2012.
2. *On stable self-similar blowup for semilinear wave equations*. Seminar, EPFL Lausanne, Switzerland, 23.04.2012.
1. *On linear stability of self-similar blowup for co-rotational wave maps*. Follow-up workshop “Quantitative Studies of Nonlinear Wave Phenomena”, ESI, Wien, Austria, 04.04.2011.