

Follow-Up-Workshop to TP
“Harmonic Analysis and Partial Differential Equations”

May 6 - 10, 2019

organized by
Herbert Koch, Daniel Tataru, Christoph Thiele

• Monday, May 6

10:30 - 11:00	Registration and coffee break
11:00 - 11:10	Introductory Notes
11:10 - 11:50	Alexander Volberg <i>Poincaré inequalities on Hamming cube: analysis, combinatorics, probability</i>
11:50 - 12:30	Emanuel Carneiro <i>Sobolev regularity for maximal operators</i>
12:30 - 14:30	<i>Lunch break</i>
14:30 - 15:10	Tadahiro Oh <i>On dispersive PDEs with singular random data</i>
15:20 - 16:00	Angkana Rüland <i>On the Fractional Calderon Problem: Uniqueness, Stability and Reconstruction</i>
16:00 - 16:30	<i>Coffee and cake</i>
16:30 - 17:10	Paata Ivanishvili <i>Weissler’s conjecture on the boolean cube</i>
afterwards	<i>Reception</i>

• Tuesday, May 7

09:00 - 09:40	Michael Christ <i>Multilinear oscillatory integral inequalities: Best of the best</i>
09:50 - 10:30	Diogo Oliveira e Silva <i>Sharp Strichartz inequalities for fractional and higher order Schrödinger equations</i>
10:30 - 11:00	<i>Group photo and coffee break</i>

11:00 - 11:40	Shaoming Guo <i>Decoupling inequalities for moment manifolds associated to Arkhipov-Chubarikov-Karatsuba systems</i>
11:50 - 12:30	Po-Lam Yung <i>A proof of decoupling inequalities for the moment curve in 3 dimensions inspired by efficient congruencing</i>
12:30 - 14:30	<i>Lunch break</i>
14:30 - 15:10	Mihaela Ifrim <i>Dispersive decay of small data solutions for the KdV equation</i>
15:20 - 16:00	Birgit Schörkhuber <i>Self-similar blowup for the focusing energy-supercritical wave equation</i>
16:00 - 16:30	<i>Coffee and cake</i>
16:30 - 17:10	Roland Donniger <i>Strichartz estimates for the one-dimensional wave equation</i>
17:20 - 18:00	Benjamin Dodson <i>Global well-posedness and scattering for the defocusing, cubic wave equation</i>
19:00 -	<i>Dinner at Gasthaus im Stiefel - Bonngasse 30</i>

• **Wednesday, May 8**

09:00 - 09:40	Michael Struwe <i>Normalized harmonic map flow</i>
09:50 - 10:30	Rowan Killip <i>KdV on H^{-1} and beyond</i>
10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:40	Luis Vega <i>Some lower bounds for solutions of Schrodinger evolutions</i>
11:50 - 12:30	Jim Wright <i>On a higher dimensional version of the Benjamin-Ono equation</i>
12:30	<i>Lunch and afternoon hike - departure from Bonn Central Station at 1:59 pm by tram 66 to Oberdollendorf. Further information regarding the hike to be found on the registration table</i>

• **Thursday, May 9**

09:00 - 09:40	Joachim Krieger <i>Randomization improved Strichartz estimates and applications</i>
09:50 - 10:30	Paul F. Müller <i>Best Constants in Complex Convexity Estimates, and Extensions to R^n, $n \geq 2$</i>
10:30 - 11:00	<i>Coffee break</i>

11:00 - 11:40	Vjekoslav Kovač <i>On maximal and variational Fourier restriction</i>
11:50 - 12:30	Brian Street <i>Maximal Hypoellipticity</i>
12:30 - 14:30	<i>Lunch break</i>
14:30 - 15:10	Piero D'Ancona <i>NAME OF TALK TBD</i>
15:20 - 16:00	Jeremy L. Marzuola <i>Nodal deficiency, spectral flow, and the Dirichlet-to-Neumann map</i>
16:00 - 16:30	<i>Coffee and cake</i>
16:30 - 17:10	Kenji Nakanishi <i>Global dynamics and Strichartz estimate of the 4D Zakharov system below the ground state energy</i>
17:20 - 18:00	Sebastian Herr <i>Wave Maps and Bilinear Fourier Restriction</i>

• **Friday, May 10**

09:00 - 09:40	Tuomas Hytönen <i>Dyadic representation meets operator-valued kernels</i>
09:50 - 10:30	Pavel Zorin-Kranich <i>Variational and jump inequalities</i>
10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:40	Stefan Buschenhenke <i>The non-linear Brascamp-Lieb-inequality</i>
11:50 - 12:30	Camil Muscalu <i>The Helicoidal Method</i>
12:40 - 13:20	Dirk Hundertmark <i>Counting bound states in quantum mechanics with maximal Fourier-multiplier estimates</i>
13:20	<i>Lunch break and end of workshop</i>

All talks take place at HIM lecture hall, Poppelsdorfer Allee 45, Bonn.