

Workshop

“Regensburg days on non-archimedean geometry”

September 30 – October 2, 2013

Organized by: Walter Gubler, Klaus Künnemann and Hartwig Mayer

All lectures are held in Room M104

Coffee break: Room M103

Monday, September 30

09:00 - 10:00	Antoine Ducros (Paris)	Around skeleta of Berkovich spaces: direct images and integral structures
10:00 - 10:30	<i>Coffee break</i>	
10:30 - 11:30	Sam Payne (Yale)	Adic tropicalizations
11:30 - 13:30	<i>Lunch time</i>	
13:30 - 14:30	Annette Werner (Frankfurt)	Faithful tropicalization of the Grassmannian of planes
14:30 - 15:00	<i>Coffee break</i>	
15:00 - 16:00	Sebastien Boucksom (Paris)	An analogue of pluripotential theory in non-archimedean geometry
16:15 - 17:15	Amaury Thuillier (Lyon)	Kato conjecture over finite fields, following Jannsen and Berkovich

Tuesday, October 1

09:00 - 10:00	Michael Temkin (Jerusalem)	Metritization of the sheaves of differential forms on Berkovich spaces
10:00 - 10:30	<i>Coffee break</i>	
10:30 - 11:30	Francesco Baldassarri (Padova)	Harmonic functions and index theorems in de Rham cohomology for non-archimedean curves
11:30 - 13:30	<i>Lunch time</i>	
13:30 - 14:30	Jérôme Poineau (Strasbourg)	An explicit finiteness result for the convergence Newton polygon of a p-adic differential equation
14:30 - 15:00	<i>Coffee break</i>	
15:00 - 16:00	Andrea Pulita (Montpellier)	Local and global index theorems for p-adic differential equations over Berkovich curves
16:15 - 17:15	Kiran Kedlaya (San Diego)	Convergence of solutions of differential equations on relative curves
19:00	Conference dinner “Bischofshof”	

Wednesday, October 2

09:00 - 10:00	Joseph Rabinoff (Harvard)	The skeleton of the Jacobian and lifting piecewise-affine functions to rational functions on a curve
10:00 - 10:30	<i>Coffee break</i>	
10:30 - 11:30	Ilya Tyomkin (Beer Sheva)	Canonical tropicalization of curves and some applications
11:30 - 13:30	<i>Lunch time</i>	
13:30 - 14:30	Kazuhiko Yamaki (Kyoto)	Strict supports of canonical measures
14:30 - 15:00	<i>Coffee break</i>	
15:00 - 16:00	Farbod Shokrieh (Cornell)	Faithful Tropicalization of Abelian Varieties
16:15 - 17:15	Alejandro Soto (Tübingen)	Combinatorial description of toric varieties over rank one valuation rings