Workshop on
“Analysis and CR Geometry”
December 10 – 14, 2018

organized by
Shif Berhanu (Temple U), Anne-Katrin Gallagher (Oklahoma State U),
Bernhard Lamel (U Vienna), Takeo Ohsawa (Nagoya U)

• Monday, December 10, 2018
  09:00 – 09:20 Opening & Registration
  09:20 – 10:10 Bernhard Lamel
  Some aspects of the work of Friedrich Haslinger
  10:10 – 10:40 Coffee / Tea break
  10:40 – 11:30 Siqi Fu
  Aspects of Emil J. Straube’s work on the $\bar{\partial}$-Neumann problem
  11:40 – 12:10 Purvi Gupta
  Convexity properties of even-dimensional compact manifolds
  12:10 – 14:00 Lunch break
  14:00 – 14:50 Judith Brinkschulte
  On Levi-flat CR manifolds, positive line bundles and extension problems
  15:00 – 15:30 Severine Biard
  Weighted $L^2$ polynomial approximation in $\mathbb{C}$
  15:30 – 16:00 Coffee / Tea break
  16:00 – 16:50 Laurent Stolovitch
  Linearizations of neighborhoods of embeddings of complex compact manifolds

• Tuesday, December 11, 2018
  09:00 – 9:50 Nikolay Shcherbina
  On core and hyperbolicity of some model domains
  09:50 – 10:20 Coffee / Tea break
  10:20 – 11:10 Jeffery McNeal
  Irregularity of Bergman projections and consequences
  Sub-Bergman projections: Duality and Approximation
  11:50 – 14:00 Lunch break
14:00 – 14:50 Jean Ruppenthal
Chern forms of singular metrics on vector bundles

15:00 – 15:30 Martin Sera
Wedge Products of closed positive currents with analytic singularities and its application
15:30 – 16:00 Coffee / Tea break
16:00 – 16:50 Nordine Mir
Convergence and Divergence of formal CR mappings

• Wednesday, December 12, 2018

09:00 – 09:50 Chin-Yu Hsiao
G-equivariant embedding theorems for CR manifolds of high dimension
09:50 – 10:20 Coffee / Tea break
10:20 – 11:10 Ilya Kossovskiy
Real-analytic coordinates for smooth CR-hypersurfaces
11:20 – 11:50 Yunus Zeytuncu
Spectra of Kohn Laplacians on CR manifolds

• Thursday, December 13, 2018

09:00 – 09:50 John D’Angelo
Rational Spere Maps
09:50 – 10:20 Coffee / Tea break
10:20 – 11:10 Peter Ebenfelt
Bounded strictly pseudoconvex domains in \( \mathbb{C}^2 \) with obstruction flat boundary
11:20 – 11:50 Sean Curry
CR manifolds with an essential symmetry
11:50 – 14:00 Lunch break
14:00 – 14:30 Giuseppe Della Sala
A characterization of sphericity by analytic discs
14:40 – 15:30 Paulo D. Cordaro
Semi-local analytic solvability in differential complexes associated to locally integrable structures
15:30 – 16:00 Coffee / Tea break
16:00 – 16:50 Jorge G. Hounie
Global solvability of real analytic involutive systems on compact manifolds, Part 2

• Friday, December 14, 2018

09:00 – 09:50 Christine Laurent-Thiebaut
Characterizing density properties by mean of Dolbeault cohomology
09:50 – 10:20 Coffee / Tea break
10:20 – 11:10 Jiri Lebl
Levi-flat Plateau problem
11:20 – 11:50 Masanori Adachi
Ampleness of positive CV line bundles over Levi-flat manifolds, revisited
11:50 – 14:00 Lunch break
14:00 – 14:30 **Florian Bertrand**  
*Stationary discs and jet determination for non-degenerate real submanifolds*

14:40 – 15:30 **Franc Forstneric**  
*H-principle for complex contact structures on Stein manifolds*

15:30 – 16:00 *Coffee / Tea break*

All talks take place at the ESI, Boltzmann Lecture Hall!