

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

11:20 – 11:50 **Luke Edholm**

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**
TBA

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 Spered 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 **Franz 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!