

dbar10 Workshop

The dbar-Neumann problem: Analysis, Geometry, and Potential Theory

December 13 - 22, 2010

organized by F. Haslinger, B. Lamel, E. Straube

Schedule of lectures for Week 1 (December 13 - 17)**• Monday, December 13**14:00 – 14:50: **Al Boggess**: *New Formulas for the Fundamental Solution to \square_b on Certain Quadrics*15:00 – 15:30: **coffee**15:30 – 16:20: **Andrew Raich**: *Gaussian estimates for \square_b heat kernels and quantitative smoothness estimates*16:30 – 17:20: **Margit Pap**: *Connection between Zernike functions, corneal topography and the voice transform***• Tuesday, December 14**09:30 – 10:20: **Joseph Kohn**: *PDE with loss of derivatives*10:30 – 11:00: **coffee**11:00 – 11:50: **Jeff McNeal**: *Non-holomorphic projections and extension of biholomorphic maps*12:00 – 13:30: **lunch**13:30 – 14:20: **Debraj Chakrabarti**: *The dbar-equation on product domains*14:30 – 15:00: **coffee**15:00 – 15:50: **Christine Laurent**: *Stability of embeddability under perturbation of the CR structure for compact CR manifolds*16:00 – 16:50: **Ingo Lieb**: *The Neumann problem on non-smooth strictly pseudoconvex domains***• Wednesday, December 15**09:30 – 10:20: **Jean Ruppenthal**: *Compactness of the dbar-Neumann operator on singular complex spaces*10:30 – 11:00: **coffee**11:00 – 11:50: **Jeff McNeal**: *Regularity of twisted d-bar Neumann problems***• Thursday, December 16**09:30 – 10:20: **Shif Berhanu**: *A new class of FBI transforms and applications to holomorphic extendability of CR functions*10:30 – 11:00: **coffee**11:00 – 11:50: **Abdelhamid Meziani**: *On the hypoellipticity of differential forms with isolated singularities*12:00 – 14:00: **lunch**14:00 – 14:50: **Nordine Mir**: *Algebraic approximation in CR geometry*15:00 – 15:30: **coffee**15:30 – 16:20: **Siqui Fu**: *Comparison of the Bergman and Szegő kernels*16:30 – 17:20: **Takeo Ohsawa**: *Variation of the Bergman kernel and the cone of Kähler deformability tangents***• Friday, December 17**09:30 – 10:20: **Emil Straube**: *Compactness of the complex Green operator on CR-submanifolds of hypersurface type*10:30 – 11:00: **coffee**11:00 – 11:50: **Samangi Munasinghe**: *Geometric Sufficient Conditions for Compactness of the Complex Green Operator*