

第17回

- 講演者 : **Wolfram Bauer** 氏 (Hannover 大学)
 - 題目 : Heat flow and Berezin-Toeplitz calculus
 - 日時 : 平成27年3月3日 (火) 16:30 – 17:30

In this talk we discuss different problems in the area of Toeplitz operators T_f acting on the Segal-Bargmann space of Gaussian square integrable entire functions on $(\mathbb{C}^n)$ or Bergman spaces over bounded symmetric domains (Ω) . In the first case we address the “commuting problem” and the “zero product problem” and we discuss composition formulas for Toeplitz operators with symbols in suitable classes. In particular, a one-parameter family of non-commutative products on a space of real analytic functions is defined and we can introduce a corresponding algebra of Berezin-Toeplitz operators. Applications to the analysis of the induced Toeplitz algebras are mentioned. If time allows we will also address the question of compactness characterizations of operators in the above framework via the Berezin transform. In various of these problems the heat flow on $(\mathbb{C}^n)$ or (what we call) the Harish-Chandra flow on (Ω) plays an important role. This presentation gives a survey on recent joint works with T. Le (U. Toledo, USA), L.A. Coburn (SUNY Buffalo), J. Isralowitz (SUNY, Albany), D. Agbor (Göttingen), B.-R. Choe and Hyungwoon Koo (Seoul).



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