

Literature related to the Master Course

Berezin Toeplitz quantization

Works directly presented in the course:

more of overview character:

(1) Martin Schlichenmaier: Berezin-Toeplitz quantization of compact Kähler manifolds,
(in) A. Strasburger et. al. (eds) Quantization, Coherent States and Poisson structures, Proc. XIV th Workshop on Geometric Methods in Physics, Białowieża 1995, Polish Scientific Publisher, 1998, 101-115,
<http://arxiv.org/abs/q-alg/9601016>

(2) Martin Schlichenmaier: Berezin-Toeplitz quantization and Berezin symbols for arbitrary compact Kähler manifolds,
(in) Schlichenmaier et al. (eds) Coherent States, Quantization and Gravity, Proc. of the XVII Workshop on Geometric Methods in Physics, Białowieża 1998, Warsaw University Press, 45-56,
<http://arxiv.org/abs/math.QA/9902066>

(3) Martin Schlichenmaier: Berezin-Toeplitz quantization and Berezin transform
(in) S. Graffi, A. Martinez:
Long Time Behaviour of Classical and Quantum Systems, Proc. of the Bologna APTEX Int. Conf, 1999, WS 2001, 271-287
<http://arxiv.org/abs/math.QA/0009219>

(4) Deformation quantization of compact Kaehler manifolds by Berezin-Toeplitz quantization (in)
G. Dito, D. Sternheimer, Conference Moshe Flato 1999, Kluwer 2000, Vol. 2, 289-306
<http://arxiv.org/abs/math.QA/9910137>

Articles in Journals:

(1) M. Bordemann, E. Meinrenken, M. Schlichenmaier:
Toeplitz quantization of Kähler manifolds and $gl(n)$, n to infinity limit, CMP 165 (1994), 281-296

(2) A. Karabegov, M. Schlichenmaier:
Identification of Berezin-Toeplitz deformation quantization,
J. reine angew. Math. 540(2001), 40-76,
<http://arxiv.org/abs/math.QA/0006063>

Background material used in the course:

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(1) L. Boutet de Monvel, V. Guillemin, The spectral geometry of
Toeplitz operators, Ann. Math. Studies, Nr. 99, Princeton University
Press, 1981

(2) V. Guillemin, Some classical theorems in spectral theory
revisited, (in) Seminars on singularities of solutions of linear
partial differential equations, Ann. Math. Studies, Nr. 99, Princeton
University Press, 1979

(3) M. Cahen, S. Gutt, J. Rawnsley:
Quantization of Kaehler manifolds
I, JGP 7, 45-62;
II. Trans. Am. Math. Soc. 337(1993), 73-98;
III. LMP 30(1994), 291-305,
IV. LMP 34(1995), 159-168;

(4) A. Karabegov: Deformation quantization with separation
of variables on a Kaehler manifold,
CMP 180(1996), 745-755

(5) Mirek Engliš, Weighted Bergmann Kernels and Quantization,
CMP, 227, 211-241 (2002)

(6) S. Zelditch, Szegő kernels and a theorem of Tian,
Int. Math. Res. Not. 6 (1998), 317-331

(and many many more references
of importance can be found in the above papers)