

toeplitz operators and spectral pdf

some algebraic and spectral properties of dual Toeplitz operators and to study to what extent these properties parallel those of Toeplitz operators on the Hardy space. Our results for dual Toeplitz operators may offer some insight into the study of similar questions for Toeplitz operators on the Bergman space.

ALGEBRAIC AND SPECTRAL PROPERTIES OF DUAL TOEPLITZ OPERATORS

semiclassical quantization and spectral limits of \hbar -pseudodifferential and Berezin-Toeplitz operators Alvaro Pelayo Leonid Polterovich San Vu Ngo [arXiv:1508.01232](#) abstract.

SEMICLASSICAL QUANTIZATION AND SPECTRAL LIMITS OF

1965] SPECTRAL THEORY OF GENERALIZED TOEPLITZ OPERATORS 435 of measure zero. It is known [9] that such a v . N. algebra R is maximal abelian, and it follows immediately that $(L^{\infty}(S), R, \mathcal{J}_e)$ is a Riesz system.

SPECTRAL THEORY OF GENERALIZED TOEPLITZ OPERATORS

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for the operator theorist. In particular, the study of normal operators is quite complete (see, for example, Halmos [1951]). Two classes of operators where knowledge of the spectrum and/or spectral properties has been crucial are the class of Toeplitz operators and the class of subnormal operators. In the former class, a

SUBNORMAL OPERATORS, TOEPLITZ OPERATORS AND SPECTRAL

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The Spectral Theory Of Toeplitz Operators Am 99 Volume

A Note on the Spectral Area of Toeplitz Operators Cheng Chu and Dmitry Khavinson Abstract. In this note, we show that for hyponormal Toeplitz operators, there exists a lower bound for the area of the spectrum. This extends the known estimate for the spectral area of Toeplitz operators with an analytic symbol. 1. Introduction

A Note on the Spectral Area of Toeplitz Operators

The main results of this paper are an asymptotic expansion in powers of \hbar for the spectral measure $\hat{\mu}_{\hbar, Q}$ of a semi-classical Toeplitz operator, $Q \hat{\mu}_{\hbar, \bullet}$, and an equivariant version of this result when $Q \hat{\mu}_{\hbar, \bullet}$ admits an n -torus as a symmetry group. In addition we discuss some inverse spectral consequences of these results.

Spectral Properties of Semi-classical Toeplitz Operators

If $\hat{\mathcal{L}} = T^* X \hat{\mu} \in \mathcal{O}$ then the ring of Toeplitz operators associated with $\hat{\mathcal{L}}$ is the usual ring of pseudodifferential

operators on X . Hence the pseudodifferential counterparts of the theorems of §13 and §14 are in fact just special cases of these theorems.

The Spectral Theory of Toeplitz Operators. (AM-99) on JSTOR

This paper is devoted to some problems in the Fredholm and spectral theory of Toeplitz operators on the spaces H_p , $1 < p < \infty$, on compact Abelian groups. Throughout the paper, G is a nontrivial connected compact Abelian group with the normalized Haar measure m and (in general, partially) ordered char-

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Spectral triples and Toeplitz operators 1043 A spectral triple on the algebra $\mathcal{K} \otimes C(S^1) \otimes \mathcal{K}$ acting on $H \otimes H \otimes L^2(S^1) \otimes H \otimes L^2(S^1)$ with an operator D based on the shift and on the number operator has already been proposed in [12].

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