Nonself–adjoint operators with almost Hermitian spectrum: Matrix model. I

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Dedicated to Professor E.B. Davies on the occasion of his 60th birthday

Abstract

Nonself-adjoint, nondissipative perturbations of bounded self-adjoint operators with real purely singular spectrum are considered. Using a functional model of a nonself–adjoint operator as a principal tool, spectral properties of such operators are investigated. In particular, in the case of rank two perturbations the pure point spectral component is completely characterized in terms of matrix elements of the operators' characteristic function.
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Keywords: Functional model; Almost Hermitian spectrum; Pure point spectrum; Matrix model
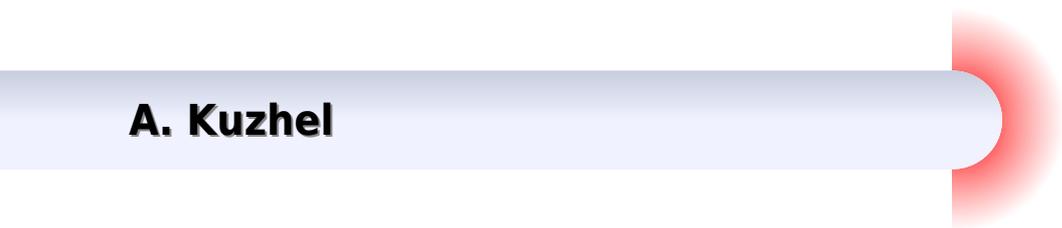
1. Introduction

In the present paper we consider nonself-adjoint, nondissipative additive perturbations $L = A + iV$ of a bounded self-adjoint operator A acting in Hilbert space H. Operators of this class have been extensively studied; see, e.g., [15,16,30,28,29] (see also [18,12,7,8,19]) for directly related results on the operators which are "close to unitary"). We are primarily interested in discussing the properties of the singular spectral subspace N_i of the operator L (see Section 2 for definitions).

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Characteristic Functions And Models Of Nonself Adjoint Operators

A. Kuzhel

Characteristic Functions And Models Of Nonself Adjoint Operators:

Characteristic Functions and Models of Nonself-Adjoint Operators A. Kuzhel,1996 This work aims to give a systematic presentation of methods used in the spectral theory of nonself adjoint generally unbounded operators Subjects treated include the wide class of both selfadjoint and nonself adjoint extensions of Hermitian operators characteristic functions of a regular extension the construction of some operator models for different classes of nonself adjoint operators the construction of the selfadjoint dilation of an arbitrary dissipative operator and J unitary and J selfadjoint dilations of linear operators the abstract Lax Phillips scheme in scattering theory for spaces with indefinite metric Pontryagin spaces the relation between scattering matrix and the characteristic function of J nonexpansive operators a structure of J nonexpansive operators and contractions and their triangulation   Characteristic Functions and Models of Nonself-Adjoint Operators A. Kuzhel,1995-12-14 Over the last decades the study of nonself adjoint or nonunitary operators has been mainly based on the method of characteristic functions and on methods of model construction or dilatation for corresponding operator classes The characteristic function is a mathematical object a matrix or an operator associated with a class of nonself adjoint or nonunitary operators that describes the spectral properties of the operators from this class It may happen that characteristic functions are simpler than the corresponding operators in this case one can significantly simplify the problem under investigation for these operators For given characteristic function of an operator A we construct in explicit form an operator that serves as a model A of the operator A in a certain linear space to some extent this resembles the construction of diagonal and triangular matrices unitary equivalent or similar to certain matrix classes The study of this model operator may give much information about the original operator its spectrum the completeness of the system of root subspaces etc In this book we consider various classes of linear generally speaking unbounded operators construct and study their characteristic functions and models We also present a detailed study of contractiol s and dissipative operators in particular from the viewpoint of their triangulation   *Theory of Commuting Nonselfadjoint Operators* M.S. Livsic,N. Kravitsky,A.S. Markus,V. Vinnikov,2013-06-29 Considering integral transformations of Volterra type F Riesz and B Sz Nagy no ticed in 1952 that 49 The existence of such a variety of linear transformations having the same spectrum concentrated at a single point brings out the difficulties of characterization of linear transformations of general type by means of their spectra Subsequently spectral analysis has been developed for different classes of non selfadjoint operators 6 7 14 20 21 36 44 46 54 It was then realized that this analysis forms a natural basis for the theory of systems interacting with the environment The success of this theory in the single operator case inspired attempts to create a general theory in the much more complicated case of several commuting operators with finite dimensional imaginary parts During the past 10 15 years such a theory has been developed yielding fruitful connections with algebraic geometry and sys tem theory Our purpose in this book is to formulate the basic problems appearing in this theory and to present its main results It is worth noting that in addition to the joint spectrum the

corresponding algebraic variety and its global topological characteristics play an important role in the classification of commuting operators For the case of a pair of operators these are 1 The corresponding algebraic curve and especially its genus 2 Certain classes of divisors or certain line bundles on this curve   *Recent Advances in Operator Theory* A. Dijksma,Marinus A. Kaashoek,A.C.M. Ran,2012-12-06 This volume contains a selection of papers in modern operator theory and its applications Most of them are directly related to lectures presented at the Inter national Workshop on Operator Theory and its Applications held at the University of Groningen IWOTA 98 in Groningen the Netherlands from June 30 July 3 1998 The workshop was attended by 97 mathematicians of which 12 were PhD or postdoctoral students from 19 countries The program consisted of 19 plenary lectures of 40 minutes and 72 lectures of 30 minutes in 4 parallell sessions The present volume reflects the wide range and rich variety of topics presented and discussed at the workshop The papers deal with operator polynomials and analytic operator functions with spectral problems of partial differential oper ators and related operator matrices with interpolation completion and extension problems with commutant lifting and dilation with Ricatti equations and real ization problems with scattering theory with problems from harmonic analysis and with topics in the theory of reproducing kernel spaces and of spaces with an indefinite metric All papers underwent the usual refereeing process   Operator Theory, System Theory and Related Topics Daniel Alpay,Victor Vinnikov,2012-12-06 This volume presents the refereed proceedings of the Conference in Operator The ory in Honour of Moshe Livsic 80th Birthday held June 29 to July 4 1997 at the Ben Gurion University of the Negev Beer Sheva Israel and at the Weizmann In stitute of Science Rehovot Israel The volume contains papers in operator theory and its applications understood in a very wide sense many of them reflecting 1 directly or indirectly a profound impact of the work of Moshe Livsic Moshe Mikhail Samuilovich Livsic was born on July 4 1917 in the small town of Pokotilova near Uman in the province of Kiev in the Ukraine his family moved to Odessa when he was four years old In 1933 he enrolled in the Department of Physics and Mathematics at the Odessa State University where he became a student of M G Krein and an active participant in Krein s seminar one of the centres where the ideas and methods of functional analysis and operator theory were being developed Besides M G Krein M S Livsic was strongly influenced B Va Levin an outstanding specialist in the theory of analytic functions A by deep understanding of operator theory as well as function theory and a penetrating search of connections between the two were to become one of the landmarks of M S Livsic s work M S Livsic defended his Ph D   **Analytic Methods of Spectral Representations of Non-Selfadjoint (Non-Unitary) Operators** Vladimir A. Zolotarev,2025-05-03 This book is concerned with the theory of model representations of linear non selfadjoint and non unitary operators This booming area of functional analysis owes its origins to the fundamental works of M S Liv ic on the theory of characteristic functions the deep studies of B S Nagy and C Foias on dilation theory and also to the Lax Phillips scattering theory Here a uniform conceptual approach is developed which organically unites all these theories New analytic methods are introduced which make it possible to solve some

important problems from the theory of spectral representations Aimed at specialists in functional analysis the book will also be accessible to senior mathematics students **Encyclopaedia of Mathematics, Supplement III** Michiel Hazewinkel,2007-11-23 This is the third supplementary volume to Kluwer s highly acclaimed twelve volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing twelve volumes and together these thirteen volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available **St. Petersburg Mathematical Journal** ,2006 *Mathematics of the USSR.* ,1977 **Acta Scientiarum Mathematicarum** József Attila Tudományegyetem,1998 *Journal of Contemporary Mathematical Analysis* ,2002 *Mathematical Reviews* ,2006 Serdica Mathematical Journal ,2005 Journal of analysis and its applications ,1982 **Bulletin of the American Mathematical Society** ,1981 *Linear and Complex Analysis Problem Book 3* Victor P. Havin,Nikolai K. Nikolski,1994-04-28 The 2 volume book is an updated reorganized and considerably enlarged version of the previous edition of the Research Problem Book in Analysis LNM 1043 a collection familiar to many analysts that has sparked off much research This new edition created in a joint effort by a large team of analysts is like its predecessor a collection of unsolved problems of modern analysis designed as informally written mini articles each containing not only a statement of a problem but also historical and methodological comments motivation conjectures and discussion of possible connections of plausible approaches as well as a list of references There are now 342 of these mini articles almost twice as many as in the previous edition despite the fact that a good deal of them have been solved **Bulletin (new Series) of the American Mathematical Society** ,1981 *Mathematical Proceedings of the Royal Irish Academy* ,2005 **Matematychni Studii : Proceedings of the Lviv Mathematical Society, V. 1-, No.1- 1997-** ,1997 *Distortion Theorems in Relation to Linear Integral Operators* Yūsaku Komatsu,1996 Details 20 years of research on distortions of functionals under actions of linear integral operators Part I addresses linear integral operators and their properties Part II develops several different kinds of distortions under actions of integral operators for various familiar functionals Specific subjects include distortions on the class of univalent functions and its subclasses Caratheodory and distortions by a differential operator For researchers and graduate students involved in complex analysis integral transforms operational calculus and operator theory Annotation copyrighted by Book News Inc Portland OR

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