

# Singular parabolic operators in the half-space with boundary degeneracy: Dirichlet and oblique derivative boundary conditions

L. Negro \*

## Abstract

We study elliptic and parabolic problems governed by the singular elliptic operators

$$\mathcal{L} = y^{\alpha_1} \operatorname{Tr} (QD_x^2) + 2y^{\frac{\alpha_1+\alpha_2}{2}} q \cdot \nabla_x D_y + \gamma y^{\alpha_2} D_{yy} + y^{\frac{\alpha_1+\alpha_2}{2}-1} (d, \nabla_x) + cy^{\alpha_2-1} D_y - by^{\alpha_2-2}$$

in the half-space  $\mathbb{R}_+^{N+1} = \{(x, y) : x \in \mathbb{R}^N, y > 0\}$ , under Dirichlet or oblique derivative boundary conditions. In the special case  $\alpha_1 = \alpha_2 = \alpha$  the operator  $\mathcal{L}$  takes the form

$$\mathcal{L} = y^\alpha \operatorname{Tr} (AD^2) + y^{\alpha-1} (v, \nabla) - by^{\alpha-2},$$

where  $v = (d, c) \in \mathbb{R}^{N+1}$ ,  $b \in \mathbb{R}$  and  $A = \left( \begin{array}{c|c} Q & q' \\ \hline q & \gamma \end{array} \right)$  is an elliptic matrix. We prove elliptic and parabolic  $L^p$ -estimates and solvability for the associated problems. In the language of semigroup theory, we prove that  $\mathcal{L}$  generates an analytic semigroup, characterize its domain as a weighted Sobolev space and show that it has maximal regularity.

Mathematics subject classification (2020): 35K67, 35B45, 47D07, 35J70, 35J75.

Keywords: degenerate elliptic operators, boundary degeneracy, vector-valued harmonic analysis, maximal regularity.

## 1 Introduction

In this paper we study solvability and regularity of elliptic and parabolic problems associated to the degenerate operators

$$\mathcal{L} = y^{\alpha_1} \operatorname{Tr} (QD_x^2) + 2y^{\frac{\alpha_1+\alpha_2}{2}} q \cdot \nabla_x D_y + \gamma y^{\alpha_2} D_{yy} + y^{\frac{\alpha_1+\alpha_2}{2}-1} (d, \nabla_x) + cy^{\alpha_2-1} D_y - by^{\alpha_2-2} \quad (1)$$

and  $D_t = \mathcal{L}$  in the half-space  $\mathbb{R}_+^{N+1} = \{(x, y) : x \in \mathbb{R}^N, y > 0\}$  or in  $(0, \infty) \times \mathbb{R}_+^{N+1}$  and under Dirichlet or oblique derivative boundary conditions at  $y = 0$ .

Here  $v = (d, c) \in \mathbb{R}^{N+1}$  with  $d = 0$  if  $c = 0$ ,  $b \in \mathbb{R}$  and  $A = \left( \begin{array}{c|c} Q & q' \\ \hline q & \gamma \end{array} \right)$  is a constant real elliptic matrix. The real numbers  $\alpha_1, \alpha_2$  satisfy  $\alpha_2 < 2$  and  $\alpha_2 - \alpha_1 < 2$  but are not assumed to be nonnegative. In the special case  $\alpha_1 = \alpha_2 = \alpha$  the operator  $\mathcal{L}$  takes the form

$$\mathcal{L} = y^\alpha \operatorname{Tr} (AD^2) + y^{\alpha-1} (v, \nabla) - by^{\alpha-2} \quad (2)$$

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# Dirichlet Problem For Parabolic Operators With Singular Drift Terms

**Jie Wu**



## **Dirichlet Problem For Parabolic Operators With Singular Drift Terms:**

**The Dirichlet Problem for Parabolic Operators with Singular Drift Terms** Steve Hofmann, John L. Lewis, 2001 This memoir considers the Dirichlet problem for parabolic operators in a half space with singular drift terms Chapter I begins the study of a parabolic PDE modelled on the pullback of the heat equation in certain time varying domains considered by Lewis Murray and Hofmann Lewis Chapter II obtains mutual absolute continuity of parabolic measure and Lebesgue measure on the boundary of this halfspace and also that the  $L^q$  Dirichlet problem for these PDEs has a solution when  $q$  is large enough Chapter III proves an analogue of a theorem of Fefferman Kenig and Pipher for certain parabolic PDEs with singular drift terms Each of the chapters that comprise this memoir has its own numbering system and list

**Approximation and Entropy Numbers of Volterra Operators with Application to Brownian Motion** Mikhail Anatol'evich Lifshits, Werner Linde, 2002 This text considers a specific Volterra integral operator and investigates its degree of compactness in terms of properties of certain kernel functions In particular under certain optimal integrability conditions the entropy numbers  $e_n(T_{\rho, \psi})$  satisfy  $c_1 \text{norm } \rho, \psi_{r_0} \leq e_n(T_{\rho, \psi}) \leq c_2 \text{norm } \rho, \psi_{r_0}$  *Elliptic Partial Differential Operators and Symplectic Algebra* William Norrie Everitt, L. Markus (Lawrence), 2003 This investigation introduces a new description and classification for the set of all self adjoint operators not just those defined by differential boundary conditions which are generated by a linear elliptic partial differential expression  $A \mathbf{x} = \sum_{|\alpha| \leq 2m} a_\alpha(x) \frac{\partial^\alpha \mathbf{x}}{\partial x^\alpha}$  for all  $\mathbf{x}$  in  $\Omega$  in a region  $\Omega$  with compact closure  $\overline{\Omega}$  and  $C^\infty$  smooth boundary  $\partial\Omega$  in Euclidean space  $\mathbb{R}^n$  The order  $2m \geq 2$  and the spatial dimension  $n \geq 2$  *Homotopy Theory of the Suspensions of the Projective Plane* Jie Wu, 2003 Investigates the homotopy theory of the suspensions of the real projective plane This book computes the homotopy groups up to certain range It also studies the decompositions of the self smash products and the loop spaces with some applications to the Stiefel manifolds **Some**

**Generalized Kac-Moody Algebras with Known Root Multiplicities** Peter Niemann, 2002 Starting from Borcherds fake monster Lie algebra this text constructs a sequence of six generalized Kac-Moody algebras whose denominator formulas root systems and all root multiplicities can be described explicitly The root systems decompose space into convex holes of finite and affine type similar to the situation in the case of the Leech lattice As a corollary we obtain strong upper bounds for the root multiplicities of a number of hyperbolic Lie algebras including  $E_{24}$  *Basic Global Relative Invariants for Homogeneous Linear Differential Equations* Roger Chalkley, 2002 Given any fixed integer  $m \geq 3$  the author presents simple formulas for  $m-2$  algebraically independent polynomials over  $\mathbb{Q}$  having the remarkable property with respect to transformations of homogeneous linear differential equations of order  $m$  that each polynomial is both a semi invariant of the first kind with respect to changes of the dependent variable and a semi invariant of the second kind with respect to changes of the independent variable These relative invariants are suitable for global studies in several different contexts and do not

require Laguerre Forsyth reductions for their evaluation In contrast all of the general formulas for basic relative invariants that have been proposed by other researchers during the last 113 years are merely local ones that are either much too complicated or require a Laguerre Forsyth reduction for each evaluation

**Spectral Decomposition of a Covering of  $GL(r)$ : the Borel case** Heng Sun, 2002 Let  $F$  be a number field and  $\mathbb{A}$  the ring of adeles over  $F$  Suppose  $\overline{G}$   $\mathbb{A}$  is a metaplectic cover of  $G$   $\mathbb{A}$   $GL(r)$   $\mathbb{A}$  which is given by the  $n$ th Hilbert symbol on  $\mathbb{A}$

$q$ -Difference Operators, Orthogonal Polynomials, and Symmetric Expansions Douglas Bowman, 2002 The author explores ramifications and extensions of a  $q$  difference operator method first used by L J Rogers for deriving relationships between special functions involving certain fundamental  $q$  symmetric polynomials In special cases these symmetric polynomials reduce to well known classes of orthogonal polynomials A number of basic properties of these polynomials follow from this approach This leads naturally to the evaluation of the Askey Wilson integral and generalizations Expansions of certain generalized basic hypergeometric functions in terms of the symmetric polynomials are also found This provides a quick route to understanding the group structure generated by iterating the two term transformations of these functions Some infrastructure is also laid for more general investigations in the future

**Almost Commuting Elements in Compact Lie Groups** Armand Borel, Robert Friedman, John W. Morgan, 2002 This text describes the components of the moduli space of conjugacy classes of commuting pairs and triples of elements in a compact Lie group This description is in the extended Dynkin diagram of the simply connected cover together with the co root integers and the action of the fundamental group In the case of three commuting elements we compute Chern Simons invariants associated to the corresponding flat bundles over the three torus and verify a conjecture of Witten which reveals a surprising symmetry involving the Chern Simons invariants and the dimensions of the components of the moduli space

**Derived  $\ell$ -Adic Categories for Algebraic Stacks** Kai Behrend, 2003 This text is intended for graduate students and research mathematicians interested in algebraic geometry category theory and homological algebra

**The Moduli Space of  $N=1$  Superspheres with Tubes and the Sewing Operation** Katrina Barron, 2003 Within the framework of complex supergeometry and motivated by two dimensional genus zero holomorphic  $N=1$  superconformal field theory this book defines the moduli space of  $N=1$  genus zero super Riemann surfaces with oriented and ordered half infinite tubes modulo superconformal equivalence

**Mathematical Reviews**, 2004 **Revista Matemática Iberoamericana**, 2017 Report, 1999 *American Book Publishing Record*, 2001 *Séminaire Bourbaki*, 2003 As in the preceding volumes of this seminar one finds here fifteen survey lectures on topics of current interest three lectures on algebraic geometry two on dynamical systems one on actions of finite groups one on combinatorics and algebraic geometry one on theoretical computer science one on  $p$  adic monodromy one on Iwasawa algebras one on the Kato conjecture one on renormalization and Feynman diagrams one on dualities in string theory one on the geometric Langlands correspondence and one on dessins d'enfants The book is suitable for graduate students and research mathematicians interested in recent

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