



Tomás Lungenstrass Poulsen

Born the 11th of February, 1988 in Santiago, Chile

MAILING ADDRESS:

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Academic background

PH.D. IN MATHEMATICS, FACULTY OF MATHEMATICS, PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE, SANTIAGO, CHILE, 2015

Advisor: Prof. Georgi Raikov

Thesis title: *Spectral Properties of Magnetic Quantum Systems*

Defended on May 5th, 2015

M.SC. IN MATHEMATICS, FACULTY OF MATHEMATICS, PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE, SANTIAGO, CHILE, 2014

INGÉNIEUR POLYTECHNICIEN (MASTER LEVEL), ÉCOLE POLYTECHNIQUE, PALAISEAU, FRANCE, 2011

MATHEMATICAL ENGINEERING, SCHOOL OF ENGINEERING, PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE, SANTIAGO, CHILE, 2011

List of publications

T. Lungenstrass, G. Raikov, *Local spectral asymptotics for metric perturbations of the Landau Hamiltonian*, to appear in Analysis & PDE, ArXiv preprint 1412.6897

T. Lungenstrass, G. Raikov, *Trace formulae for the asymptotic density of eigenvalue clusters for the perturbed Landau Hamiltonian*, in Mathematical Results in Quantum Mechanics, Proceedings of the QMath12 Conference, World Scientific Pub. Co., Singapore 2015

T. Lungenstrass, G. Raikov, *A trace formula for long-range perturbations of the Landau Hamiltonian*, Ann. Henri Poincaré 15 n°8 (2014), pp. 1523-1548

Research visits and participation in conferences

ISAAC NEWTON INSTITUTE FOR MATHEMATICAL SCIENCES, “PERIODIC AND ERGODIC SPECTRAL PROBLEMS”, CAMBRIDGE, UK, 01/2015

LXXXIII ENCUESTRO ANUAL SOMACHI, LINARES, CHILE, 12/2014

Talk given on 06/12/2014, invited by Prof. Erdal Emsiz

INTERNATIONAL CONFERENCE SPECTRAL THEORY AND MATHEMATICAL PHYSICS, PUC, SANTIAGO, CHILE, 11/2014

Talk given on 27/11/2014, invited by Prof. Georgi Raikov

SPECTRAL THEORY SEMINAR, PUC, SANTIAGO, CHILE, 10/2014

Talk given on 30/10/2014, invited by Prof. Georgi Raikov

THE SIXTH M. SH. BIRMAN CONFERENCE IN SPECTRAL THEORY, EULER INSTITUTE, ST. PETERSBURG, RUSSIA, 07/2014

SPECTRAL DAYS 2014, CIRM, LUMINY, FRANCE, 06/2014

SÉMINAIRE DE PHYSIQUE MATHÉMATIQUE-EDP, INSTITUT DE MATHÉMATIQUES DE BORDEAUX, BORDEAUX, FRANCE, 01/2014

Talk given on 15/01/2014, invited by Prof. Vincent Bruneau

ANALYSIS SEMINAR, UNIVERSITY OF TOKYO, TOKYO, JAPAN, 07/2013

Talk given on 09/07/2013, invited by Prof. Shu Nakamura

6TH PACIFIC RIM CONFERENCE ON MATHEMATICS, SAPPORO, JAPAN, 07/2013

SPECTRAL THEORY SEMINAR, PUC, SANTIAGO, CHILE, 06/2013

Talk given on 20/06/2013, invited by Prof. Georgi Raikov

“RESONANCES AND THRESHOLD SINGULARITIES”, KING’S COLLEGE, LONDON, UK, 02/2013

Mini-course dictated by Prof. Georgi Raikov

INSTITUT MITTAG-LEFFLER, “HAMILTONIANS IN MAGNETIC FIELDS”, DJURSHOLM, SWEDEN,
09-10/2012

INTERNATIONAL CONGRESS ON MATHEMATICAL PHYSICS, AALBORG, DENMARK, 08/2012

Teaching and professional experience

SUBSTITUTE TEACHER, “DIFFERENTIAL EQUATIONS”, PUC, SANTIAGO, CHILE, 09/2013

ASSISTANT TEACHER, “PARTIAL DIFFERENTIAL EQUATIONS”, PUC, SANTIAGO, CHILE,
03-07/2013

ASSISTANT TEACHER, “CALCULUS III”, PUC, SANTIAGO, CHILE, 03-07/2012

ASSISTANT TEACHER, “CALCULUS II”, PUC, SANTIAGO, CHILE, 08-12/2011

RESEARCH INTERNSHIP, “REALIZABILITY AND SUPERCONSISTENCY IN MODULO THEORIES”,
INRIA, PARIS, FRANCE, 04-07/2011

WORK EXPERIENCE, BEIJING HUNYUAN TAIJI DEVELOPMENT CENTER, BEIJING, CHINA,
08-09/2010

ASSISTANT TEACHER, “CALCULUS II”, PUC, SANTIAGO, CHILE, 08-12/2008

Participation in professional organizations

INTERNATIONAL ASSOCIATION OF MATHEMATICAL PHYSICS, SINCE 2012

Languages

Spanish, French, English