CURRICULUM VITAE ET STUDIORUM OF
Tullio CECCHERINI–SILBERSTEIN
(updated November 15, 2015)

Generalities.

Place and date of birth: Rome, November 11 1966.

Citizenship: Italian.

Marital status: married.

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Università degli Studi del Sannio di Benevento
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Home page: http://www.ing.unisannio.it/tullio/

Languages spoken:

Italian, English, French, and Russian; basic German; and some Hebrew.

Academic degrees:

1985: Diploma di Maturità Classica, Liceo Ginnasio Statale "Giulio Cesare" with mark 60 / 60.

1990: Laurea in Matematica, Università degli Studi di Roma "La Sapienza" with mark 110 / 110 cum Laude; title of the dissertation: "Azione di gruppi mediante automorfismi della algebra di Cuntz di ordine infinito", advisor: Professor Sergio Doplicher.

1993: Master (of Arts) degree in Mathematics, University of California at Los Angeles (UCLA).

1994: PhD in Mathematics, UCLA; title of the dissertation: "Approximately inner and centrally free commuting squares of type II_1 factors and their classification", advisor: Professor Sorin Popa.

1995-98: Ricercatore (= maitre de conférences) di Analisi Matematica à l'Università degli Studi dell'Aquila.

1998 –: **Professore Associato** di Analisi Matematica à l'Università degli Studi del Sannio (Benevento).

2014: National Habilitation **Professore Ordinario** (= full professor) in:
(i) MAT/05 Analisi Matematica, Probabilità e Statistica Matematica (= Mathematical Analysis)
(ii) MAT/03 Algebra e Geometria (= Algebra and Geometry).

Academic positions:

1990-94: Graduate student at the Mathematics Department, UCLA.

1991-92: Leave of absence (from UCLA) at the IHES (Institut des Hautes Etudes Scientifiques), Bures–sur–Yvette (Paris), France.

1992-93: Teaching Assistant (TA) and Research Assitant (RA) at the Mathematics Department, UCLA.

1994-96: Post-doc at the Section de Mathématiques de l' Univeristé de Genève, Geneva.

1995-98: Ricercatore di Analisi Matematica: Dipartimento di Matematica Pura ed Applicata, Università degli Studi dell' Aquila, L' Aquila.

Nov. 1996- Jan. 1997: Visiting at the Steklov Mathematical Institute. Moscow (Russia).

Oct. 1997- Sept. 1998: Collaborateur Scientifique: Institut de Mathématiques, Université de Neuchâtel, Neuchâtel (Switzerland).

Nov. 1998–: Professore Associato di Analisi Matematica: Facoltà di Ingegneria, Università degli Studi del Sannio di Benevento.

Nov.–Dec. 2000: Visiting at the Institut für Mathematik, Technische Universität Graz (Austria).

January 2004: Visiting Associate Professor at the Mathematics Department, UCSD.

February 2003: Visiting at DIMACS (Rutgers University).

November 2003 - October 2004: Leave of absence at the Dipartimento di Matematica "G. Castelnuovo" Università di Roma "La Sapienza".

February 2004: Visiting Associate Professor at the Math Dept of UC San Diego.

Fall 2004: Visiting Associate Professor at the Math Dept of the Texas A & M University, College Station, TX.

Fall 2006: Visiting Associate Professor at the Math Dept of UC San Diego.

January 2007: Visiting at the Institut für Mathematik, Technische Universität Graz (Austria).

October-November 2007: Visitor at IHES, Bures-sur-Yvette, France.

October-November 2008: Visitor at IHES, Bures-sur-Yvette, France.

December 2009: Visitor at Tata Institute of Fundamental Research (TIFR), Mumbai, India.

February 2010: Visitor at the Math Department Kyushu University, Fukuoka, Japan.

August 2010: Visiting Associate Professor at the Math Dept of UC San Diego.

April 2011: Visting at the Chebyshev Laboratory, St.Petersburg State University, St.Petersburg, Russia.

July 2011: Visiting Associate Professor at the Math Dept of UC Los Angeles.

August 2011: Visiting Associate Professor at the Math Dept of UC San Diego.

July 2012: Visiting Associate Professor at the Math Dept of UC Los Angeles.

June 2013: Visitor at ICTP Trieste.

February 2014: Visitor at IHP, Paris.

July-August 2014: Visiting Associate Professor at the Mathematics Department, UCSD.

July 2015: Visiting Associate Professor at the Mathematics Department, UCSD.

Organizing and administrative activities:

Editor of the International Journal *Groups, Geometry, and Dynamics*, published by the European Mathematical Society (Editor in chief: Rostislav I. Grigorchuk).

Coordinator in chief of the Italian national project GNAFA-CNR "Analytic, gemetrical and combinatorial aspects of ergodic theory, of dynamical systems and group actions".

Coordinator in chief of the Italian national project INdAM "Analytic, gemetrical and combinatorial aspects of the theory of dynamical systems and formal languages".

Member of the organizing and scientific committee of the International Conference "International Conference on GROUP THEORY: combinatorial, geometric, and dynamical aspects of infinite groups" Gaeta (Italy) June 1-6 2003.
(`http://atlas-conferences.com/cgi-bin/calendar/d/facf89`).

Member of the organizing and scientific committee of the INdAM Conference "Geometric Group Theory, Random Walks and Harmonic Analysis" Cortona (Italy) June 13-18 2004.
(`http://www.math.tugraz.at/ cortona/`).

Organizer of the Workshop "Groups and Languages" INdAM, Roma September 9-10, 2010.
(`http://www.altamatematica.it/it/node/68`).

Member of the organizing and scientific committee of the INdAM Conference "Groups, Graphs and Random Walks" Cortona, 2-6 June 2014.
(`http://www.math.tugraz.at/mathc/woess60/index.php`).

European Science Foundation (RGLIS): funding of 13000 EURO for the INdAM workshop "Groups, Graphs and Random Walks" Cortona, 2-6 June 2014.

Director of the INdAM research unit at the Università del Sannio (Benevento), since 2014.

Member of the organizing and scientific committee of the "Rencontre Mathématique à Genève en l'honneur de Pierre de la Harpe" Geneva, 13-14 Octobre 2014.
(`https://sites.google.com/site/delaharpe70/`).

Member of the organizing and scientific committee of "Groupes, Geométrie et Systemes Dynamiques, une journée mathémathique en l'honneur de Michel Coornaert. IRMA (Strasbourg) le 27 février 2015.
(`http://www.ing.unisannio.it/tullio/michel2.html`)

Grants and Prizes:

Prize of the Scuola Matematica Interuniversitaria (1989)
Grant of CNR = National Research Council (1989-90)
Grant of CNR = National Research Council (1990-92)
Prize of CNR = National Research Council (1991)
Prize of CNR = National Research Council (1992)
Grant of CNR = National Research Council (1993-95)
Grant of EMS = European Matheamtical Society (1993)
Grant of CNR = National Research Council (1998-99)
Grant of INdAM = National Institute for Advanced Mathematics (2000-01)
Grant of INdAM = National Institute for Advanced Mathematics (2004)
Grant of INdAM = National Institute for Advanced Mathematics (2011)
Prize of the BURC = University Bureau of Campania Region (2008)
Grant of INdAM = National Institute for Advanced Mathematics (2014)
Grant of ESF = European Science Foundation (2014)

Research advisor and PhD referee:

1998-2001. **PhD Advisor** (jointly with Prof. A. Machì) of dr Francesca Fiorenzi (XIII Ciclo di Dottorato). Title of the dissertation: *Automi cellulari e gruppi finitamente generati*. Università degli Studi di Roma "La Sapienza". Dr Fiorenzi is presently *maître de conférences* au Laboratoire de Recherche en Informatique of the Université Paris-Sud, France.

2003-2008. **PhD Advisor** (jointly with Prof. F. Scarabotti) of dr Daniele D'Angeli (XIX Ciclo di dottorato). Title of the dissertation: *Groups, Probability, Combinatorics: Different Aspects in Gelfand Pairs Theory* Università degli Studi di Roma "La Sapienza". Dr D'Angeli is presently an *adjunct professor* at the Mathematics Department of the Technische Universität in Graz (Austria).

2003-2008. **PhD Advisor** (jointly with Prof. F. Scarabotti) of dr Alfredo Donno (XIX Ciclo di dottorato). Title of the dissertation: *Gelfand Pairs: From Self-Similar Groups to Markov Chains* Università degli Studi di Roma "La Sapienza". Dr Donno is presently *associate professor* at the Università telematica Niccolò Cusano in Rome.

2013-2016. **PhD Advisor** of dr Matteo Cavaleri (XXVIII Ciclo di dottorato). Title of the dissertation: *Algorithms and quantications in amenable and soc groups* Università degli Studi di Roma "La Sapienza". Dr Cavaleri is presently PostDoc at IMAR (Bucharest).

Member of the commettee for PhD in mathematics at:

- Università "La Sapienza" di Roma (dr S. Carpi, dr M. Del Muto, dr S. Capobianco),
- Università di Palermo (dr D.E. Otera),
- Université de Paris-Sud Orsay (dr D.E. Otera),
- Université "Louis Pasteur" de Strasbourg (dr F. Krieger),
- Université de Neuchâtel (dr S. Moon),
- Ecole Polytechnique Fédérale de Lausanne (dr J. Kellerhals),
- Politecnico di Milano (dr M. Abu Ayyash),
- Università di Roma "Tor Vergata" (dr A. Abdallah),
- Kopenhagen University (dr K. Olesen Knudsen),
- University of Vienna (dr F. Berlai).

Teaching experience (graduate):

November-December **2000**, TU Graz (Austria), Graduate course: *Groups, graphs and Amenability*.

September **2003** - February **2004**, Università di Roma "La Sapienza", Graduate course: *Aspetti combinatori, analitici e dinamici in teoria dei gruppi e dei linguaggi formali*.

January **2005**, TU Graz (Austria), Graduate course: *Groups, graphs and Expanders: the Zig-Zag product*.

November **2006**, Rice University (Houston, USA), Minicourse: *Growth of finitely generated groups and Gromov's theorem for groups of polynomial growth*.

January **2007**, TU Graz (Austria), Graduate course: *Gelfand pairs and applications to Probability*.

December **2009**, Tata Institute for Fundamental Research (TIFR MUmbai, India) Minicourse: *Automata and Groups*.

February **2010**, Kyushu University (Fukuoka, Japan), Minicourse: *On the Okounkov-Vershik approach to the Representation Theory of the Symmetric Groups*.

April **2011**, Chebyshev Laboratory at St. Petersburg State University, Minicourse: *Symbolic Dynamics and One-dimensional Cellular Automata*.

June **2013**, ICTP-SISSA-Moscow School on Geometry and Dynamics, ICTP Trieste, Minicourse: *The Garden of Eden theorem for cellular automata over amenable groups*.

December **2014**, Università de Chile, Santiago del Cile, Minicourse: *Cellular automata and groups*.

January **2016**, TU Graz (Austria), Graduate course: *Automata and groups.*

March **2017**, Universidade Federal de Santa Catarina, Florianopolis (Brazil), Minicourse: *The Garden of Eden Theorem: from symbolic dynamics to Ansov diffeomorphisms and automorphisms of compact abelian groups.*

Teaching experience (undergraduate) abroad:

1992-1993: (Fall Quarter) Teaching assistant to Prof. Ph. Curtis for MATH 31A, (UCLA);

1992-1993: (Winter Quarter) Teaching assistant to Prof. P. Welch for MATH 31B, (UCLA);

1995-1996: (first semester) Cours de II cycle: "La Transformée de Laplace": Section de Mathématiques Université de Genève, Geneva, Switzerland;

2004-2005: (I semestre) Course MATH 151 (Calculus for Engineers). Math Dept of the Texas A & M University, College Station, TX;

2006-2007: (Fall Quarter) Course MATH 20/B (Calculus). University of California San Diego; La Jolla, CA;

2006-2007: (Fall Quarter) Course MATH 20/F (Linear Algebra). University of California San Diego; La Jolla, CA.

2010: (Summer Quarter) Course MATH 20/B (Calculus). University of California San Diego; La Jolla, CA.

2010: (Summer Quarter) Course MATH 20/F (Linear Algebra). University of California San Diego; La Jolla, CA.

2011: (Summer Quarter) Corso MATH 131A (Real Analysis). University of California at Los Angeles, CA.

2011: (Summer Quarter) Course MATH 31A (Calculus). University of California at Los Angeles, CA.

2011: (Summer Quarter) Course MATH 20/B (Calculus). University of California at San Diego;

2011: (Summer Quarter) Course MATH 10/B (Precalculus). University of California at San Diego.

2012: (Summer Quarter) Course MATH 2 (Finite Mathematics). University of California at Los Angeles, CA.

2012: (Summer Quarter) Course MATH 31A (Calculus). University of California at Los Angeles, CA.

2015: (Summer Quarter) Course MATH 10/A (Precalculus). University of California at San Diego, CA.

2015: (Summer Quarter) Course MATH 20/A (Calculus). University of California at San Diego, CA.

Teaching experience (undergraduate) in Italy:

1995-1996 (secondo semestre) Esercitazioni di Analisi Matematica I (CL in Informatica) per il Prof. S. Campi; Università dell' Aquila.

(secondo semestre): Esercitazioni di Analisi Matematica II (CL in Matematica) per il Prof. P. D' Ancona; Università dell' Aquila.

1996-1997 Esercitazioni di Analisi Matematica I (CL in Informatica) per il Prof. J. Myjak; Università dell' Aquila;

Esercitazioni di Istituzioni di Analisi Superiore (CL in Matematica) per il Prof. J. Myjak; Università dell' Aquila.

1997-1998: (secondo semestre) Esercitazioni di Analisi Matematica I (CL in Informatica) per la Prof.ssa D. De Acutis; Università dell' Aquila;

(secondo semestre) Esercitazioni di Istituzioni di Analisi Superiore (CL in Matematica) per il Prof. J. Myjak; Università dell' Aquila.

1998-1999: Corso di Analisi Matematica II (CL in Ingegneria informatica); Università del Sannio;

(I semestre) Corso di Analisi Matematica I (CD in Ingegneria delle infrastrutture); Università del Sannio.

1999-2000: (I quadrimestre) Corso di Analisi Matematica I (CD in Ingegneria delle infrastrutture e CD in Ingengeria delle Telecomunicazioni); Università del Sannio;

(I quadrimestre) Corso di Analisi Matematica I (CD in Ingegneria Informatica); Università del Sannio;

(II quadrimestre) Corso di Analisi Matematica II (CD in Ingegneria delle infrastrutture e CD in Ingengeria delle Telecomunicazioni); Università del Sannio;

(II quadrimestre) Corso di Analisi Matematica II (CD in Ingegneria Informatica); Università del Sannio;

(II quadrimestre) Corso di Analisi Matematica II (CD in Ingegneria informatica); Università del Sannio;

(II quadrimestre) Corso di Analisi Matematica II (CD in Ingegneria delle infrastrutture, CD in Ingengeria delle Telecomunicazioni e CD in Ingegneria Energetica); Università del Sannio.

2001-2002: Precorso (18 ore) di Matematica (CD/L in Ingegneria civile, CD/L in Ingengeria delle Telecomunicazioni e CD/L in Ingegneria Energetica);

Precorso (18 ore) di Matematica (CD/L in Ingegneria Informatica); Università del Sannio.

(II semestre) Corso di Matematica II (CD in Ingegneria informatica); Università del Sannio;

(II semestre) Corso di Matematica II (CD in Ingegneria delle infrastrutture, CD in Ingengeria delle Telecomunicazioni e CD in Ingegneria Energetica); Università del Sannio;

2002-2003: (I semestre) Corso di Matematica I (CD in Ingegneria informatica); Università del Sannio;

(I semestre) Corso di Matematica I (CD in Ingegneria delle Telecomunicazioni); Università del Sannio.

(II semestre) Corso di Matematica II (CD in Ingegneria delle infrastrutture, CD in Ingengeria delle Telecomunicazioni e CD in Ingegneria Energetica); Università del Sannio.

2004-2005: (II semestre) Corso di Matematica II (CD in Ingegneria informatica); Università del Sannio;

(II semestre) Corso di Matematica II (CD in Ingegneria delle Telecomunicazioni); Università del Sannio.

2005-2006: (II semestre) Corso di Matematica II (CD in Ingegneria informatica); Università del Sannio;

(II semestre) Corso di Matematica II (CD in Ingegneria delle Telecomunicazioni); Università del Sannio.

2006-2007: (II semestre) Corso di Matematica II (CD in Ingegneria informatica); Università del Sannio;

(II semestre) Corso di Matematica II (CD in Ingegneria delle Telecomunicazioni); Università del Sannio.

2007-2008: (II semestre) Corso di Matematica II (CD in Ingegneria informatica); Università del Sannio.

(II semestre) Corso di Matematica II (CD in Ingegneria delle Telecomunicazioni); Università del Sannio.

(II semestre) Corso di Matematica II (CD in Ingegneria Civile ed Energetica); Università del Sannio.

2008-2009: (II semestre) Corso diMatematica II (CD in Ingegneria informatica e Telecomunicazioni); Università del Sannio.

(II semestre) Corso Matematica II (CD in Ingegneria Civile e CD in Ingegneria Energetica); Università del Sannio.

(II semestre) Corso di Calcolo Integrale (CD in Informatica); Università di Roma "La Sapienza".

2009-2010: Corso di Matematica (CD in Ingegneria Energetica) Università del Sannio.

(II semestre) Corso di Calcolo Integrale (CD in Informatica); Università di Roma "La Sapienza".

2010-2011: Corso di Matematica (CD in Ingegneria Energetica) Università del Sannio.

2011-2012: Corso di Matematica (CD in Ingegneria Energetica) Università del Sannio.

2012-2013: Corso di Matematica (CD in Ingegneria Energetica) Università del Sannio.

2013-2014: Corso di Matematica (CD in Ingegneria Energetica) Università del Sannio.

2014-2015: Corso di Matematica (CD in Ingegneria Energetica) Università del Sannio.

2015-2016: Corso di Matematica (CD in Ingegneria Energetica) Università del Sannio.

Conferences and workshops attended by Tullio CECCHERINI-SILBERSTEIN:

(1) "Quantum groups, operator algebras and duality and their application to physics": International Conference sponsored by Istituto Nazionale di Alta Matematica (INdAM): Cortona, September 25 - 30, 1989.

(2) "Advanced Research Workshop and Conference on Operator Algebras, Mathematical Physics and Low Dimensional Topology": Istanbul July 1 - 5, 1991.

(3) International Conference on "Operator Algebras", a satellite conference of the ECM (European Congress of Mathematics) Paris 1992: Orleans July 1 - 4, 1992.

(4) West–Operator Algebra Conference: Reno (Nevada) October 25-27,1992.

(5) CBMS conference "Classification of Amenable Subfactors" ten lectures by S. Popa: Eugene (Oregon) August 23-29, 1993. **(6)** International Conference "Algèbres d' Operateurs", a satellite conference of the ICM (International Congress of Mathematics) Zurich 1994: Genève July 19-23, 1994.

(7) Workshop on "Cohomology of groups", Chateau d' Oex (Switzerland): March 29 - 31, 1995.

(8) "XV Convegno Nazionale di Analisi Armonica", Alghero (Italy): June 19 - 23, 1995.

(9) "XVI Convegno Nazionale di Analisi Armonica", Grado (Italy) May 20 - 23, 1996.

(10) Euroconference in Algebra and Discrete Mathematics: "Group Theory: from Finite to Infinite"; Il Ciocco Castelvecchio Pascoli (LU), Italy) July 13 - 18, 1996.

(11) "XVII Convegno Nazionale di Analisi Armonica", S. Margherita Ligure (Italy) March 21–24, 1997.

(12) Workshop on General Combinatorial Group Theory (CRM Montreal): April 5–13, 1997.

(13) INdAM Meeting "Random Walks and Discrete Potential Theory" Cortona June 23 - 27, 1997.

(14) Workshop on "Géometrie et Combinatoire des Groupes" Geneva (Switzerland): February 23 - 27, 1998.

(15) "XVIII Convegno Nazionale di Analisi Armonica", Ponza (Italy): June 22–26, 1998.

(16) International Conference on the 90th anniversary of L.S. Pontryagin, Steklov Mathematical Institute and Lomonosov University, Moscow: August 31 - September 6, 1998.

(17) International conference "Mathematics Towards the Third Millennium" Accademia dei Lincei (Roma): May 26-29, 1999.

(18) "XIX Convegno Nazionale di Analisi Armonica", Aosta (Italy): June 7–10, 1999.

(19) International Conference 'Paul Erdös and his mathematics" Budapest: July 4-11, 1999.

(20) Rencontres de Mathématiques : "Automata 99", ENS Lyon (France): October 27-29, 1999.

(21) "XX Convegno Nazionale di Analisi Armonica", Como June 5-7, 2000.

(22) International Conference "Geometric and Combinatorial Group Theory" Technion, Haifa (Israel), June 13-23, 2000.

(23) Workshop on "Groupes et Languages". Neuchatel (CH), June 24-27, 2000.

(24) "XXI Convegno Nazionale di Analisi Armonica", Piano di Sorrento, May 28-31, 2001.

(25) ESI Workshop on "Random walks and geometry": Vienna, June 25 - July 6, 2001.

(26) "Probabilistic models and disordered systems": Roma, February 4-7, 2002.

(27) Rencontres de Mathématiques : "Groupes associés aux automates": ENS Lyon, May 3-4, 2002.

(28) "XXII Convegno Nazionale di Analisi Armonica" Isole Tremiti, June 3-7, 2002.

(29) Rencontres de Mathématiques : "Property τ": ENS Lyon, June 13-14, 2002.

(30) International workshop on "Semigroups, Automata, and Formal Languages": Crema, June 17-21, 2002.

(31) Oberwolfach Meeting: "Profinite Groups and Discrete Subgroups of Lie Groups": Oberwolfach May 18-24, 2003

(32) "XXIII Convegno Nazionale di Analisi Armonica" Padova, May 26-29, 2003.

(33) "International Conference on Group Theory: combinatorial, geometrical and dynamical aspects of infinite groups" Gaeta (LT), June 1-6, 2003. **(34)** "Probability in Mathematics. In Honour of Hillel Furstenberg" Jerusalem and Beer Sheba (Israel) June 17 - 24, 2003.

(35) "Geometric and Group Theory Methods in Algebraic Structures" September 15-27, 2003, Tbilisi-Batumi, Georgia.

(36) "Automorphic Forms, Group Theory and Graph Expansion" IPAM-UCLA Los Angeles. February 9 - 13, 2004.

(37) "XXIV Convegno Nazionale di Analisi Armonica". Sestri Levante March 29-31, 2004.

(38) INdAM Meeting "Geomtric Group Theory, Random Walks and Harmonic Analysis" June 13–20 2004, Cortona Italy).

(39) Conference on the occasion of Pierre de la Harpe's 60th birthday: Geneva, Switzerland. September 30 - October 2, 2004.

(40) "Asymptotic group invariants and their applications": Fall Workshop 1: Math. Dept., Texas A & M University, College Station, TX, Nov 6, 2004.

(41) "Asymptotic group invariants and their applications": Fall Workshop 2: Math. Dept., Texas A & M University, College Station, TX, Dec 8, 2004.

(42) "XXV Convegno Nazionale di Analisi Armonica". Bologna, April 5-9, 2005.

(43) International Conference "Asymptotic and Probabilistic Methods in Geometric Group Theory": University of Geneva, Switzerland. June 20-25, 2005.

(44) "5th International Algebraic Conference". Odessa (Ukraine), July 20-27, 2005.

(45) ESI Workshop on "Discrete Probability", Vienna, March 20-25, 2006.

(46) "XXVI Convegno Nazionale di Analisi Armonica". Cortona, May 22-26, 2006.

(47) "Special day on Groups and Dynamics" Fall Workshop, Texas A & M University, College Station, TX, Nov 18, 2006.

(48) "XXVII Convegno Nazionale di Analisi Armonica". Caramanico Terme (PS), Italy, May 21-26 2007.

(49) Workshop on "Groups and their action", Banach Center in Bedlewo, Poland, July 1-7, 2007.

(50) "6th International Algebraic Conference". Kamyanets-Podilsky (Ukraine), July 1-7, 2007.

(51) "The First Petra International Conference on Mathematics". Al-Hussein Bin Talal University, Ma'an, Jordan, October 24-25, 2007.

(52) "Groups generated by automata", workshop at the Centro Stefano Franscini (ETH Zuerich) at Ascona (Switzerland), February 10-15, 2008.

(53) "XXVIII Convegno Nazionale di Analisi Armonica". Perugia, Italy, May 19-23, 2008.

(54) "Analyse, géométrie et dynamique sur les groupes", Neuchâtel, June 11-13, 2008.

(55) International conference "Differential Equations and Topology" dedicated to the Centennial of L.S. Pontryagin", Moscow, June 17-22, 2008.

(56) ESI Workshop on "Structural Probability" Vienna, November 3-14, 2008.

(57) "XXX Convegno Nazionale di Analisi Armonica", Gargnano (BS), June 6-11, 2010.

(58) Workshop on Ergodic Theory and Dynamical systems, Rice University, Houston TX, March 21-22, 2011.

(59) Workshop on "Group Actions on Measure Spaces" Texas A & M University, College Station TX, March 24-27, 2011.

(60) Oberwolfach meeting "Finite-dimensional approximations of groups and algebras", Oberwolfach (Germany), May 16-20, 2011.

(61) "XXXI Convegno Nazionale di Analisi Armonica", INdAM Roma, June 2011.

(62) Agora Meeting (Actions, Groups, OpeRator Algebras *Topological Dynamics*, Nouan-le-Fuzelier, Orléans, January 9-13, 2012.

(63) Séminaire LaWiNe (Lausanne-Wien-Neuchâtel, Mathematical Seminar on Sofic Groups), Université de Genève, December 21st 2012.

(64) Séminaire Tripode, Institut Camille Jordan (Lyon 1), February 22nd, 2013.

(65) Kervaire Seminar "Geometry of groups 2013", Les Diablerets (Switzerland), March 10-15, 2013.

(66) ICTP-SISSA-Moscow School on "Geometry and Dynamics", Trieste, June 3-15, 2013.

(66) "International Workshop on Noncommutative Analysis And Its Future Prospects" Hokkaido University, Sapporo, Japan, August 5-7, 2013.

(67) "Groups Acting on Rooted Trees and around" (IHP trimester on random walks and asymptotic geometry of groups) January 6 - April 4, 2014), IHP Paris, February 24-28, 2014.

(68) INdAM Meeting "Groups, graphs and Random Walks" Cortona June 2-6, 2014.

(69) "Topics in Geometric Group Theory" IMAR Bucharest, Romania, September 29 - October 5, 2014.

(70) "Workshop on Symbolic Dynamics on finitely presented Groups" CMM Santiago de Chile, Chile, December 15 - 19, 2014.

(71) "XXXV Convegno Nazionale di Analisi Armonica", Matera (Italy) May 28th, 2015.

(72) "Growth, Symbolic Dynamics and Combinatorics of Words in Groups", École normale supérieure Paris, June 1-5, 2015.

(73) AMS-EMS-SPM International Meeting, Porto (Portugal), June 9-14, 2015.

(74) "Geometric and Probabilistic methods in Group Theory and Dynamical Systems", Texas A & M University, November 9-12, 2015.

(75) "Dynamics, Geometry and Number Theory" Institut Henri Poincar (Paris) June 13-17, 2016.

(76) "Group Theory and Operator Algebras", IMAR Bucharest, September 26-29, 2016.

(77) International Workshop on Algebraic Combinatorics, Hefei University (China), October 28-31, 2016.

Talks delivered by Tullio CECCHERINI-SILBERSTEIN:

(1) *Canonical actions on the Cuntz alegbra of infinite order*: talk at the Functional Analysis Seminar (Ed Effros) Math. Dept. UCLA; February 1991.

(2) *Indice di Jones, quadrati commutativi ed il problema della classificazione dei sottofattori*: talk at the Operator Algebras and Algebraic Quantum Field Theory Seminar (S. Doplicher), Dipartimento di Matematica, Università di Roma, La Sapienza; June 1992.

(3) *Random walks on discrete groups: a theorem of Varopoulos*: talk at the summer course on "Harmonic Analysis" in Cortona (Italy); July 1992.

(4) *Local Observables and Particle Statistics (after Doplicher–Haag–Roberts)*: series of seminars at the Math. Dept. UCLA, Winter Quarter 1992-93.

(5) *Approximately inner and centrally free commuting squares of type II_1 factors and their classification*: talk at the Functional Analysis Seminar (Ed Effros) Math. Dept. UCLA; May 1994.

(6) *Le théorème spectral pour les operateurs auto–adjoints*: talk at the Seminaire Mathématique de la Suisse Romande sur la cohomologie des groupes discrets, Lausanne (Switzerland); February 1995.

(7) *Discrete potential theory, combinatorial Laplacian and random walks*: talk at the Workshop "Cohomology of groups", Chateau d' Oex (Switzerland); March 1995.

(8) *Operatori di Markov su gruppi iperbolici*: talk at the Convegno di Analisi Armonica, Alghero (Italy); June 1995.

(9) *Sur un théorème de Varopoulos*: talk at the Section de Mathématiques de l'Université de Genève; October 1995.

(10) *Moyennabilité et croissance des groupes à un seul relateur*: talk at the Section de Mathématiques de l'Université de Genève; febbraio 1996.

(11) *Amenabilità e crescita di gruppi ad un solo relatore I, II*: talks at the Harmonic Analysis Seminar (A. Figà–Talamanca and C. Nebbia), Dipartimento di Matematica, Università di Roma, La Sapienza; March 1996.

(12) *Metodi analitici nella teoria dei gruppi: hopfianità dei gruppi liberi*: talk at the Harmonic Analysis Seminar (A. Figà–Talamanca and C. Nebbia), Dipartimento di Matematica, Università di Roma, La Sapienza; March 1996.

(13) *Aspetti analitici nella teoria combinatorica dei gruppi*: talk at the Convegno Nazionale di Analisi Armonica, Grado (Italy); May 1996.

(14) *Amenability and growth of one–relator groups*: talk at the Euroconference in Algebra and Discrete Mathematics: "Group Theory: from Finite to Infinite"; Il Ciocco Castelvecchio Pascoli (LU) Italy); July 1996.

(15) *Amenable groups and cellular automata*: talk at the Seminar on Dynamical Systems (D.V. Anosov), Moscow State University; December 1996.

(16) *Grafi amenabili e grafi paradossali*: talk at the Harmonic Analysis Seminar (A. Figà–Talamanca and C. Nebbia), Dipartimento di Matematica, Università di Roma, La Sapienza; March 1997.

(17) *Gruppi amenabili ed automi cellulari*: talk at the Convegno Nazionale di Analisi Armonica, S. Margherita Ligure (Italy); March 1997.

(18) *Graphes moyennables et graphes paradoxales*: talk at the Section de Mathématiques de l'Université de Genève; March 27, 1997.

(19) *Amenability and growth of one–relator groups*: talk at the Workshop on General Combinatorial Group Theory, CRM (Montreal); April 1997.

(20) *Growth series and random walks on some hyperbolic graphs*: talk at the Conference "Random Walks and Discrete Potential Theory", Cortona (Italy); June 24, 1997.

(21) *Moyennabilité et paradoxes*: Colloquium at the Math. Dept. Université de Neuchâtel, Neuchâtel (Switzerland); October 1997.

(22) *Amenability and paradoxes*: talk at the Math. Dept. Universitá degli Studi di Milano, Milano; January 12, 1998.

(23) *Groupes moyennables et automates cellulaires*: talk at the Workshop "Géometrie et Combinatoire des groupes", Geneva; January 23, 1998.

(24) *Around Amenability*: talk at the Convegno Nazionale di Analisi Armonica, Ponza (Italy); June 25, 1998.

(25) *Amenabilità e paradossi*: talk at the Dipartimento di Matematica "Vito Volterra", Università degli Studi di Ancona, Ancona; July 8, 1998.

(26) *Paradoxical decompositions of free Burnside groups*: talk at the International Conference in Mathematics on the 90th anniversary of L.S. Pontryagin, Moscow; August 31, 1998.

(27) *Teoria ergodica e teoria combinatorica dei numeri*: series of seminars held in collaboration with Fabio Scarabotti at the Dipartimento di Matematica "Guido Castelnuovo" dell'Università "La Sapienza", Roma: January - June 1999.

(28) *Théorie de Ramsey ergodique*: talk at the Section de Mathématiques de l'Université de Genève; May 21, 1999.

(29) *Un invito alla teoreia di Ramsey ergodica*: talk at the Convegno Nazionale di Analisi Armonica, Aosta; June 10, 1999.

(30) *Garden of Eden Theorems for Amenable subshifts*: Hebrew University Jerusalem (IL), April 6, 2000.

(31) *Il gruppo di Grigorchuk di crescita intermedia*: Convegno Nazionale di Analisi Armonica. Como, June 7, 2000.

(32) *Paradoxical decompositions of free Burnside groups*: International Conference "Geometric and Combinatorial Group Theory". Technion, Haifa (IL) June 13, 2000.

(33) *Inner Amenability of Richard Thompson's group F*: Institut für Mathematik, TU Graz, December 2000.

(34) *Croissance des languages libres du contexte*: Departement de Mathématiques, Université de Neuchâtel, Neuchâtel (Svizzera); May 3rd, 2001.

(36) *Growth tightness of context free languages*: Section de Mathematiques, Université de Genève, May 11, 2001.

(37) *Linguaggi context-free e loro crescita*: Convegno Nazionale di Analisi Armonica, Piano di Sorrento, May 30, 2001.

(38) *Growth tightness of context free languages*: "Random Walks and Geometry" at the ESI Vienna, June 28, 2001.

(39) *Entropy of graphs, formal languages and symbolic dynamical systems*. Royal Institute of Technology (KTH), Stockholm, December 5, 2001.

(40) *Random walks e amenabilità: il teorema di Tarski*: "Probabilistic models and disordered systems": Roma February 4-7, 2002.

(41) *Metodi di random walks in teoria dei gruppi: amenabilità e hopfianità*: Seminario di Probabilità di Roma I. Roma February 20, 2002.

(42) *Introduzione agli espansori e ai grafi di Ramanujan*: Istituto Nazionale di Alta Matematica, Roma, February 27, 2002.

(43) *La proprietà (T) di Kazhdan*: Istituto Nazionale di Alta Matematica, Roma May 21 and 28, 2002.

(44) *Entropie de graphes et applications*: Institut de Mathématiques, Université de Neuchâtel, May 27, 2002.

(45) *Espansori anisotropi: il teorema di Alon-Boppana*: "Convegno Nazionale di Analisi Armonica" Isole Tremiti, June 3, 2002.

(46) *Entropy of symbolic dynamical systems and of formal languages*: International workshop on "Semigroups, Automata, and Formal Languages". Crema, June 19, 2002.

(47) *Distribuzioni e misure sulla frontiera dell'albero*: Istituto Nazionale di Alta Matematica "F.Severi". Roma, Nov 6 2002.

(48) *The Tarski number of free Burnside groups.* Mathematics Department, UC San Diego. Jan 24 2003.

(49) *Amenable groups, symbolic dinamical systems, formal languages and their entropy.* Department of Mathematics, Texas A & M University. Jan 29 2003.

(50) *Amenable groups: Tarski's theorem.* Department of Mathematics, Rutgers University. Feb 5 2003.

(51) *Amenable groups, symbolic dinamical systems, formal languages and their entropy.* Department of Mathematics . Princeton University. Feb 6 2003.

(52) *La teoria di Kaloujnine e i codici di Reed-Muller.* "Convegno Nazionale di Analisi Armonica". Padova May 27 2003.

(53) *Amenable groups and paradoxical decompositions: a theorem of Tarski.* Mathematics Department University of Haifa (Israel), June 15 2003.

(54) *Amenable groups and paradoxical decompositions: a theorem of Tarski.* Al Quds University, Abu Dis (Palestine Authority), June 21st 2003.

(55) *Amenable groups and paradoxical decompositions: a theorem of Tarski.* "Geometric and Group Theory Methods in Algebraic Structures" September 15-27, 2003, Tbilisi-Batumi, Georgia.

(56) *Amenablility for Banach Algebras, C^*-algebras and von Neumann algebras.* Series of talks at the Math Dept UCSD (Feb 2004), San Diego, CA.

(57) *Generalized Kaloujnine groups, uniseriality and the height of automorphisms.* Section de Mathematiques, Université de Genène, March 19 2004.

(58) *Gruppi a crescita lineare.* "Convegno Nazionale di Analisi Armonica". Sestri Levante 29 march 2003.

(59) *Finite Gelfand pairs: (new) examples and application.* Math Dept Texas A & M University, College Station, TX, Sept 15 2004.

(60) *Copppie di Gelfand finite: nuovi esempi ed applicazioni.* Dipartimento di Matematica "Guido Castelnuovo" dell'Università "La Sapienza", Roma. Sept 27 2004.

(61) *Couples de Guelfand finis : (nouveaux) examples et applications.* Conference on the occasion of Pierre de la Harpe's 60th birthday, Geneva, Switzerland. October 2nd 2004.

(62) *Amenability and paradoxical decompositions: Tarski's theorem.* Math. Dept., Texas A & M University, College Station, TX, October 6th 2004.

(63) *Amenability and paradoxical decompositions: Tarski's theorem.* Math. Dept., University of Iowa, Iowa City, IA, October 29th 2004.

(64) *Finite Gelfand pairs: (new) examples and application.* Math. Dept., University of Iowa, Iowa City, IA, November 1st 2004.

(65) *Cellular Automata, subshifts and amenable groups.* Fall Workshop 1: Asymptotic group invariants and their applications. Math. Dept., Texas A & M University, College Station, TX, November 6th 2004.

(66) *Automata, linear languages and their growth.* Fall Workshop 2: Asymptotic group invariants and their applications. Math. Dept., Texas A & M University, College Station, TX, December 8th 2004.

(67) *On a graph of intermediate growth* Math. Dept., Texas A & M University, College Station, TX, January 19th 2005.

(68) *Copppie di Gelfand finite: nuovi esempi ed applicazioni.* "Convegno Nazionale di Analisi Armonica". Padova, April 9th 2005.

(69) *Cellular automata, amenability and group rings.* 5th International Algebraic Conference, Odessa (Ucraina), July 20-27 2005.

(70) *Il teorema dell'alternativa di Tits.* Dipartimento di Matematica "G. Castelnuovo", Università di Roma "La Sapienza", February 15th 2006.

(71) *Trees, wreath products and finite Gelfand pairs*, ESI Vienna Workshop in "Discrete Probability", March 21st 2006.

(72) *Gruppi sofici e surgiuntività di alcuni sistemi dinamici* "Convegno Nazionale di Analisi Armonica". Cortona, May 22nd 2006.

(73) *Linear cellular automata, sofic groups and stable finiteness of group rings*, Algebra Colloquium, Math. Dept. UCSD, November 6th, 2006.

(74) *Linear cellular automata, sofic groups and stable finiteness of group rings*, Functional Analysis Colloquium, Math. Dept. UCLA, November 9th, 2006.

(75) *Growth of finitely generated groups and Gromov's theorem for groups of polynomial growths : I, II & III*, Special Student Seminar (Minicourse), Math. Dept. Rice University, Houston, November 16-17, 2006.

(76) *Linear cellular automata, sofic groups and stable finiteness of group rings*, Special Colloquium, Math. Dept. Rice University, Houston, November 17th, 2006.

(77) *Minimal ergodic topological action do not determine the measurable orbit equivalence class*, "Special day on Groups and Dynamics" Fall Workshop, Texas A & M University, College Station, TX, November 18th, 2006.

(78) *Minimal ergodic topological action do not determine the measurable orbit equivalence class*, Convegno Nazionale di Analisi Armonica, Caramanico Terme (PS), Italy, May 24th, 2007.

(79) *Minimal ergodic topological action do not determine the measurable orbit equivalence class*, Workshop "Groups and their actions", Banach Center Bedlewo (Poland), July 2nd, 2007.

(80) *Minimal ergodic topological action do not determine the measurable orbit equivalence class*, "6th International algebraic conference in Ukraine", Kamyanets-Podilsky, July 6th, 2007.

(81) *Finite Gelfand pairs: new examples and applications*, "The First Petra International Conference in Mathematics", Al-Hussein Bin Talal University, Ma'an (Jordan), October 25th, 2007.

(82) *Automates cellulaires et groupes : groupes moyennables et groupes sophiques*, Seminaire de théorie de groupes, Université de Paris VI (Chevaleret), Paris, November 5th, 2007.

(83) *Expansive actions on uniform spaces and surjunctive maps*, Convegno Nazionale di Analisi Armonica, Perugia, May 22nd, 2008.

(84) *Espaces uniformes, automates cellulaires et groupes surjonctifs*, "Analyse, géométrie et dynamique sur les groupes", Neuchâtel, June 11-13, 2008.

(85) *Uniform spaces, cellular automata and surjunctive groups*, International conference "Differential Equations and Topology" dedicated to the Centennial of L.S. Pontryagin", Moscow, June 17-22,, 2008.

(86) *Uniform spaces, cellular automata and surjunctive groups*, "ESI Workshop on Structural Probability", Schoredinger Institute, Vienna, November 5th, 2008.

(87) *Cellular automata and groups: dynamical aspects of infinite groups*, TU Graz, October 1st, 2009.

(88) *Automates cellulaires et groupes: aspects dynamiques des groupes infinis*, Section de Mathématiques, Université de Genève, November 5th, 2009.

(89) *Cellular automata and groups: dynamical aspects of infinite groups*, TIFR Mumbai (India), December 19th, 2009.

(90) *Automata in group theory and in the theory of formal languages* (Minicourse), TIFR Mumbai (India), December 19-22, 2009.

(91) *Cellular automata and groups: dynamical aspects of infinite groups*, Ramanujan Insitute of Mathematics, Madras/Chennai (India), December 24th, 2009.

(92) *On the Okounkov-Vershik approach to the representation theory of the symmetric groups* (Minicourse), Kyushu University, Fukuoka, Japan, February 2010.

(93) *Cellular automata and groups: dynamical aspects of infinite groups*, Kyushu University, Fukuoka, Japan, February 10th, 2010.

(94) *Automi cellulari e gruppi: aspetti dinamici dei gruppi infiniti* Dipartimento di Matematica e Informatica Universitá di Salerno, February 17th, 2010.

(95) *On the Okounkov-Vershik approach to the representation theory of the symmetric groups*, XXX Convegno Nazionale di Analisi Armonica, Gargnano (BS), June 2010.

(96) *Algebraic cellular automata*, TU Graz, Austria, September 2010.

(97) *On surjunctive groups*, Rice University, Houston TX, March 2011.

(98) *On surjunctive groups*, Texas A & M University, College Station TX, March 2011.

(99) *Symbolic Dynamics and One-dimensional Cellular Automata* (Minicourse), Chebyshev Laboratory, St.Petersburg State University, San Pietroburgo (Russia), April 24-28, 2011.

(100) *Symbolic Dynamics and Cellular Automata on Groups*, Chebyshev Lab Colloquium, Chebyshev Laboratory, St.Petersburg State University, San Pietroburgo (Russia), April 28th, 2011.

(101) *Symbolic dynamics and sofic groups*, Oberwolfach Seminar, May 16th, 2011.

(102) *Surjunctivity of cellular automata and sofic groups*, XXXI Convegno Nazionale di Analisi Armonica, INdAM Roma, June, 2011.

(103) *Surjunctivity of cellular automata and sofic groups*, UCLA, Los Angeles, USA, August 17th, 2011.

(104) *On surjunctivity I & II*, Séminaire LaWiNe (Lausanne-Wien-Neuchâtel, Mathematical Seminar on Sofic Groups), Université de Genève, December 21st, 2012.

(105) *Groupes et languages : le problème des mots*, ENS Lyon, February 18th, 2013.

(106) *Automates cellulaires et groupes*, Séminaire Tripode, Institut Camille Jordan (Lyon 1), February 22nd, 2013.

(107) *Groupes et languages : le problème des mots*, Séminaire Quantique, IRMA, Université de Strasbourg, March 4th, 2013.

(108) *Cellular automata, amenable groups, surjunctivity, and sofic groups*, University of Warwick, May 17th, 2013.

(109) *The Garden of Eden theorem for cellular automata over amenable groups (MINICOUSE)*, ICTP-SISSA-Moscow School on Geometry and Dynamics, Trieste, June 3-15, 2013.

(110) *Cellular automata and groups*, Kyoto University, Kyoto, Japan, August 2nd, 2013.

(111) *Advanced Mackey theory for finite groups*, "International Workshop on Noncommutative Analysis And Its Future Prospects" Hokkaido University, Sapporo, Japan, August 7th, 2013.

(112) *Cellular automata and groups*, University of Tokyo, Tokyo, Japan, August 9th, 2013.

(113) *Cellular automata on rooted trees*, IHP Paris, February 28th, 2014.

(114) *Introduction to sofic groups*, UCSD, San Diego, August 4th, 2014.

(115) *Introduction to linearly sofic groups*, UCSD, San Diego, August 5th, 2014.

(116) *Rabin automata and cellular automata on regular rooted trees*, UCSD, August 8th, 2014.

(117) *Aspetti algebrici, analitici e logico-informatici della teoria degli automi cellulari sui gruppi.* Università di Verona, September 25th 2014.

(118) *On soficity and surjunctivity for monoids*, IMAR Bucharest, Romania, October 1st, 2014.

(119) *Multipass automata and group word problems*, TU Graz, Austria, October 10th, 2014.

(120) *Sur la soficité et la surjonctivité des monoides*, Université de Genève, October 16th, 2014.

(121) *Cellular automata and groups: Garden of Eden Theorem, Amenable Groups, Surjunctivity and Sofic Groups*, MINICOURSE at the "Workshop on Symbolic Dynamics on finitely presented Groups" CMM Santiago de Chile, Chile, December 15 - 19, 2014.

(122) *A Garden of Eden Theorem for hyperbolic dynamical systems*, XXXV Convegno Nazionale di Analisi Armonica, Matera (Italy) May 28th, 2015.

(123) *On soficity and surjunctivity for monoids*, AMS-EMS-SPM International Meeting, Porto (Portugal), June 10, 2015.

(124) *Expansive actions of countable amenable groups with the Myhill property*, Texas A & M University, November 11th, 2015.

(125) *Cellular Automata and Groups*, University of South Florida, November 13th, 2015.

(126) *MINICOURSE: Automata and groups*, TU Graz (Austria), January-February 2016.

(127) *A Garden of Eden Theorem for Anosov diffeomorphisms on tori*, TU Graz, January 19th, 2016.

(128) *The Garden of Eden Theorem: old and new*, IMAR Bucharest, September 28th, 2016.

(129) *The Garden of Eden Theorem: old and new*, Kopenhagen University, October 5th, 2016.

(130) *Multiplicity-free induced representations*, International Workshop on Algebraic Combinatorics, Hefei University (China), October 28th, 2016.

(131) *Product of (finite) graphs and expanders*, Shanghai JaoTong University (China), November 2nd, 2016.

(132) *The Garden of Eden Theorem: old and new*, Shanghai JaoTong University (China), November 3rd, 2016.

Research interests of Tullio CECCHERINI–SILBERSTEIN

(1) Functional Analysis: Operator Algebras: C*-algebras, von Neumann algebras, automorphisms, Jones' index, subfactors. Amenability.

(2) Harmonic Analysis and Representation Theory: Random walks on groups and graphs: discrete potential theory. Harmonic analysis on homogeneous spaces. Finite Gelfand pairs and applications. Representation theory. Representation theory of the symmetric group.

(3) Geometric and Combinatorial Group Theory: One relator groups, free groups, nilpotent groups, solvable groups. Asymptotic group theory: theory of growth, the Grigorchuk group, amenability, Richard Thompson's groups. Random walks on groups. Group rings (Kaplansky conjectures on idempotents and on stable finiteness).

(4) Symbolic Dynamics and Ergodic Theory: Cellular Automata; shifts and subshifts; entropy. Ergodic Ramsey Theory. Ergodic theorems. Measurable equivalence relations.

(5) Theoretical Computer Science: Theory of formal languages: regular languages, context-free languages; entropy. Ergodc theory on compact spaces. Coding theory. Automata: finite state automata, push-down automata, Turing machines, Mihly automata (groups associated with automata), Rabin automata, cellular automata. Decision problems (group word problem, cellular automata).

(6) Combinatorics: Combinatorial number theory. Ramsey theory. Graph theory: expanders, Ramanujan graphs.

(7) Probability: Finite Markov chains, random walks on graphs and groups. System Theory.

Publications of Tullio Ceccherini-Silberstein

Research articles:

[1] T. Ceccherini and C. Pinzari: *Simplicity of the fixed point algebra of $\mathcal{O}_\infty$ under special canonical actions of a compact group*, Boll. Unione Mat. Ital. (**7**) 5–A (1991), 333-338.

[2] T. Ceccherini and C. Pinzari: *Canonical Actions on $\mathcal{O}_\infty$*, J. Funct. Analysis **103** (1992), 26-39.

[3] T. Ceccherini, S. Doplicher, C. Pinzari and J.E. Roberts: *A Generalisation of the Cuntz Algebras and Model Actions*, J. Funct. Analysis **125** (1994), 416-437.

[4] T. Ceccherini: *Approximately inner and centrally free commuting squares of type II_1 factors and their classification*, J. Funct. Analysis **142** (1996) 296-336.

[5] T. Ceccherini–Silberstein: *On a convexity problem in subfactors considered by Baht, Pati and Sunder*, Math. Ann. **307** (1997) 139-142.

[6] L. Bartholdi, S. Cantat, T. Ceccherini–Silberstein and P. de la Harpe: *Estimates for simple random walks on fundamental groups of surfaces*, Coll. Math. **72** (1997), 173-194.

[7] T. Ceccherini–Silberstein and R.I. Grigorchuk: *Amenability and growth of one–relator groups*, Enseign. Math. **43** (1997), 337-354.

[8] T. Ceccherini–Silberstein: *C^*-algebras associated with von Neumann algebras*, Boll. Un. Mat. Ital. (8) **2**-B (1999), 231-238.

[9] T.G. Ceccherini–Silberstein, A. Machì and F. Scarabotti: *Amenable groups and cellular automata*, Ann. Inst. Fourier (Grenoble) **49**, 2 (1999), 673-685.

[10] T. Ceccherini–Silberstein, R.I. Grigorchuk and P. de la Harpe: *Amenability and paradoxical decompositions for pseudogroups and for discrete metric spaces*, Proc. Steklov Inst. Math. **224** (1999), 57-97.

[11] T. Ceccherini–Silberstein, R.I. Grigorchuk and P. de la Harpe: *Décompositions paradoxales des groupes de Burnside*, C.R. Acad. Sci. Paris. Série I, **327** (1998), p. 127-132.

[12] T.Ceccherini–Silberstein: *An interplay between ergodic theory and combinatorics*, in Paul Erdös and his mathematics (Budapest, 1999), 45–49, János Bolyai Math. Soc., Budapest, 1999.

[13] C. Béguin and T. Ceccherini–Silberstein: *Formes faibles de moyennabilité pour les groupes à un relateur*, Bull. Belgian Math. Soc. (Simon Stevin) **7** (2000), p. 135-148.

[14] T. Ceccherini–Silberstein, A. Machì and F. Scarabotti: *Il gruppo di Grigorchuk di crescita intermedia*, Rend. Circ. Mat. Palermo, Serie II, Tomo **L** (2001), 67-102.

[15] L. Bartholdi and T.G. Ceccherini–Silberstein: *Salem numbers and growth series of some hyperbolic graphs*, Geom. Dedicata **90** (2002), 107-114.

[16] T. Ceccherini-Silberstein, F. Scarabotti and F. Tolli: *The top of the lattice of nomal subgroups in the Grigorchuk group*, J. Algebra **246** (2001), 292-310.

[17] T.G. Ceccherini-Silberstein: *Around Amenability*, J. Math. Sci. (New York) **106** (2001), no. 4, 3145–3163.

[18] T.Ceccherini–Silberstein and F. Scarabotti: *Inner amenability of some groups of piecewise linear homeomorphisms of the real line*, J. Math. Sci. (New York) **106** (2001), no. 4, 3164–3167.

[19] L. Bartholdi and T.G. Ceccherini–Silberstein: *Growth series and random walks on some hyperbolic graphs*, Monatsh. Math. **136** (2002), 181-202

[20] T. Ceccherini–Silberstein: *On the Grigorchuk–Kurchanov conjecture*, Manuscripta Math. **107** (2002) 451-461.

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[**21**] T. Ceccherini-Silberstein and W. Woess: *Growth and ergodicity of context-free languages*, Trans. Amer. Math. Soc. **354** (2002) 4597-4625.

[**22**] T. Ceccherini–Silberstein, A. Machì and F. Scarabotti: *On the Entropy of Regular Languages*, Theoret. Comput. Sci. **307** (2003) 93-102.

[**23**] T. Ceccherini-Silberstein and W. Woess: *Growth sensitivity of context-free languages*, Theoret. Comput. Sci. **307** (2003) 103-116.

[**24**] T. Ceccherini–Silberstein and F. Scarabotti: *Random walks, entropy and hopfianity of free groups*, in "Random walks and geometry" V. A. Kaimanovich Ed., 413–419, Walter de Gruyter, Berlin, 2004.

[**25**] T. Ceccherini-Silberstein, F. Fiorenzi and F. Scarabotti: *The Garden of Eden Theorem for Cellular Automata and for Symbolic Dynamical Systems*, in "Random walks and geometry" V. A. Kaimanovich Ed., 73–108, Walter de Gruyter, Berlin, 2004.

[**26**] T. Ceccherini–Silberstein, F.Scarabotti and F.Tolli: *Weighted expanders and the anisotropic Alon-Boppana theorem*, European J. Combin. **25** (2004) 735-744.

[**27**] T. Ceccherini–Silberstein, Yu. Leonov, F. Scarabotti and F. Tolli: *Generalized Kaloujnine groups, uniseriality and height of automorphisms*, Internat. J. Algebra Comput., **15** (2005), no. 3, 503–527.

[**28** T. Ceccherini-Silberstein: *On the growth of linear languages*, Adv. in Appl. Math., **35** (2005) 243-253.

[**29**] T. Ceccherini–Silberstein: *On subfactors with unitary orthonormal basis*, J. Math. Sci. (New York) **137** (2006), 5137–5160.

[**30**] T. Ceccherini-Silberstein and M. Coornaert: *The Garden of Eden Theorem for Linear Cellular Automata*, Ergodic Theory Dynam. Systems **26** (2006), 53–68.

[**31**] T. Ceccherini-Silberstein, F.Scarabotti and F.Tolli: *Trees, wreath products and finite Gelfand pairs*, Adv. Math. **206** (2006), 503–537.

[**32**] T. Ceccherini-Silberstein: *Growth and ergodicity of context-free languages II: the linear case*, Trans. Amer. Math. Soc. **359** (2007), 605-618.

[**33**] T. Ceccherini-Silberstein and M. Coornaert: *Injective linear cellular automata and sofic groups*, Israel J. Math. **161** (2007), 1-15.

[**34**] T. Ceccherini–Silberstein, F. Scarabotti and F. Tolli: *Finite Gelfand pairs and their applications to Probability and Statistics*, J. Math. Sci. (New York), **141**, no. 2 (2007), 1182-1229.

[**35**] T. Ceccherini-Silberstein and M. Coornaert: *Linear cellular automata: Garden of Eden Theorem, linear-surjunctivity and group rings*, Algebra Discrete Math. no. 2 (2006), 22-35.

[**36**] T. Ceccherini-Silberstein and A.Y. Samet-Vaillant: *Gromov's Translation Algebras, Growth and Amenability of Operator Algebras*, Expo. Math. **26** no. 2 (2008), 141-162.

[**37**] T. Ceccherini-Silberstein and M. Coornaert: *On the surjunctivity of Artinian linear cellular automata over residually finite groups*, in Algebra and Geometry in Geneva and Barcelona. Trends in mathematics, 37-44 (2007) Birkhäuser.

[**38**] T. Ceccherini-Silberstein and M. Coornaert: *Amenability and linear cellular automata over semisimple modules of finite length*, Comm. in Algebra **36** (2008), 1320–1335.

[**39**] T. Ceccherini-Silberstein and M. Coornaert: *Linear cellular automata over modules of finite length and stable finiteness of group rings*, J. Algebra **317** (2007), 743–758.

[**40**] T. Ceccherini-Silberstein and G. Elek: *Minimal topological actions do not determine the measurable orbit equivalencve class*, Groups, Geometry and Dynamics **2** (2008), 139–163.

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