Dmitry Chelkak – Curriculum Vitae

- **General:**
  - Name: `Dmitry Chelkak`
  - Birthday/place: Jan 1979/St. Petersburg (former Leningrad), Russian Federation
  - Citizenship: Russian Federation
  - Languages: Russian (native), English (fluent), French (intermediate)
  - E-mail address: `dmitry.chelkak@ens.fr`, `dchelkak@pdmi.ras.ru`
  - Postal address: Département de Mathématiques et Applications
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- **Employment:**
  - 2016/17 – ... : professor, ENS-MHI Chaire, École Normale Supérieure (Paris, France)
  - 2015/16 : visiting professor, University of Geneva
  - 2014/15 : senior fellow, Institute for Theoretical Studies, ETH Zürich
  - 2009 – ... : [on leave since 2014] senior researcher, Mathematical Analysis Laboratory at St. Petersburg Department of Steklov Institute (PDMI RAS)
  - 2010 – 2014 : Chebyshev Laboratory at St. Petersburg State University (SPbSU)
  - 2006/07 : senior research assistant (group of S. Smirnov), University of Geneva
  - 2004 – 2010 : docent (associate prof.), SPbSU, Department of Mathematical Analysis

- **Education:**
  - Dec 2003: PhD (PDMI RAS, St. Petersburg, co-advisors: P. Kargaev & E. Korotyaev)
Title: *"Inverse problem for harmonic oscillator perturbed by potential"*
  - 2000 – 2003: Post-graduate (SPbSU & Potsdam University, Germany)
  - 1995 – 2000: SPbSU (St. Petersburg State University), *diploma with honors*

- **Awards:**
  - 2014: Salem Prize
  - 2013: Independent University of Moscow Award (research grant for 2013)
  - 2008: Pierre Deligne Contest Award (research scholarship for 2009–2011)
  - 2004: "Young Mathematician" Prize of the St. Petersburg Math. Society
  - 2000: Euler scholarship, SPbSU & Heidelberg University
  - 1995: Gold Medal of IMO (36th Int. Math. Olympiad of schoolpupils)

- **Selected Talks and Mini-Courses:**
  - 2018 International Congress of Mathematicians, Rio de Janeiro, August 2018:
invited talk *"Planar Ising model at criticality: state-of-the-art and perspectives"*
("Analysis and Operator Algebras" & "Probability and Statistics" sections)
  - 7th European Congress of Mathematics, Berlin, July 2016:
invited talk *"2D Ising model: correlations via boundary value problems"*
("Applied Mathematics and Probability" section);
  - "Conformal geometry" program at SCGP, Stony Brook, Spring 2013:
mini-course "Spin correlations in the planar Ising model via fermionic observables";
  - Young European Probabilists 2012 Workshop "Two-dimensional statistical mechanics", Eindhoven: *mini-course "Discrete complex analysis on the microscopic level"*;

- **Research Interests:** Analysis, Mathematical Physics, Probability (especially in 2D)

- **Research Visits (one month and more):**
  - Mar/Apr 2014: ETH, Zurich
  - Feb – Mar 2013: SCGP, Stony Brook ("Conformal geometry" program)
  - Oct – Nov 2012: University of Geneva
  - May 2011 : CRM, Barcelona ("Complex analysis and spectral problems" term)
  - Sep – Oct 2010: IHES, Bures-sur-Yvette
  - Jul – Aug 2008: MFO, Oberwolfach (Oberwolfach-Leibniz-Fellowship)
  - Jan & Jul 2006: Humboldt University, Berlin
  - Oct – Dec 2005: Mittag-Leffler Institute, Djursholm ("Wave motion" term)

- **Administrative Activity:**
  - *Chebyshev Lab at SPbSU* (established in Dec 2010 under the "megagrant" project of the Russian Federation Government, principal investigator: Prof. Stanislav Smirnov): *Spring 2011: vice head, Fall 2011: acting head.*

- **Other Services to the Community:**
  - 2012: Summer School *"St. Petersburg School in Probability and Statistical Physics"*, member of the Organizing Committee (June 18–29, 2012, 150+ participants);
  - 2009 – 2014: member of the St. Petersburg Mathematical Society Council;
  - reviewer for a number of mathematical and physical journals.

- **Selected papers:**
  - Dmitry Chelkak, Robust discrete complex analysis: a toolbox, *Ann. Probab.* 44 (2016), no. 1, 628–683.
  - Dmitry Chelkak, Clément Hongler, Konstantin Izyurov, Conformal invariance of spin correlations in the planar Ising model, *Ann. Math.* 181 (2015), no. 3, 1087–1138.
  - Dmitry Chelkak, Stanislav Smirnov, Universality in the 2D Ising model and conformal invariance of fermionic observables, *Invent. Math.*, 189 (2012), no. 3, 515–580.
  - Weyl-Titchmarsh functions of vector-valued Sturm-Liouville operators on the unit interval. Chelkak, D.; Korotyaev, E.: *J. Funct. Anal.* 257 (2009), 1546—1588.
  - Inverse problem for harmonic oscillator perturbed by potential, characterization. Chelkak, D.; Kargaev, P.; Korotyaev, E.: *Comm. Math. Phys.* 249 (2004), no. 1, 133–196.