Szilárd SZABÓ

Alfréd Rényi Institute of Mathematics

Reáltanoda u. 13-15., 1053 Budapest, HUNGARY

szabosz@renyi.hu

29th of March, 2007

Personal data

- Place and date of birth: Szeged (Hungary), 24th of April 1976

- Citizenship: Hungarian

Studies

- 2006-: Post-doc scholarship at the Rényi Institute of Mathematics (Budapest, Hungary)

- 2005-2006: Post-doc scholarship at the Max Planck Institute for Mathematics (Bonn, Germany)

- 2001-2005: PhD in the Institut de Recherche Mathématique Avancée (IRMA, Strasbourg, France), under supervision of Olivier Biquard, topic: *Nahm transform for integrable connections on the Riemann sphere*, date of defense: 22nd of June 2005

- December 2001: Diploma of pure Mathematics at the University of Szeged (formerly University József Attila) under supervision of András Krámli, topic: *Hyperbolic dynamical systems*

- October 2001: "DEA" post-gradual diploma, École polytechnique (Palaiseau, France), under supervision of Olivier Biquard and Paul Seidel, topic: *Seiberg-Witten invariants on non-compact manifolds*

- July 2000: Diploma of the École polytechnique, under supervision of François Ledrappier, topic: *Partially hyperbolic dynamical systems*

Talks

- April 27th, 2007: *Deformations of Fuchsian equations and local systems*, at the Differential Topology and Algebraic Geometry seminar of the Rényi Institute of Mathematics (Budapest, Hungary)

- March 6th, 2007: *Hitchin's equations and Fourier transform on curves*, at the Lie algebras and Moduli spaces seminar of the Eötvös Loránd University (Budapest, Hungary)

- November 17th, 2006: *Nahm transform for Higgs bundles on the Riemann sphere*, at the Differential Topology and Algebraic Geometry seminar of the Rényi Institute of Mathematics (Budapest, Hungary)

- June 17th, 2006: *Nahm transform for Higgs bundles on the Riemann sphere*, at the Homological Mirror Symmetry Conference of the Erwin Schrödinger Institute (Vienna, Austria)

- May 10th, 2006: *Hyper-Kähler moduli spaces and the Nahm transform*, at the Geometry and Group Theory Seminar of the École Normale Supérieure (Paris, France)

- May 5th, 2006: *Birational Geometry of the Nahm transform*, at the Symplectic Geometry Seminar of the IRMA (Strasbourg, France)

- February 9th, 2006: *Laplace transform and spectral curves*, at the Algebraic Geometry Seminar of the Max Planck Institute for Mathematics (Bonn, Germany)

- September 8th, 2005: *Nahm transform in dimension* 2, at the Oberseminar of the Max Planck Institute for Mathematics (Bonn, Germany)

- December 17th, 2004: *Nahm transform* at the Geometry Seminar of the CSIC (Madrid, Spain)

- December 10th, 2004: *Nahm transform* at the Algebraic Geometry Seminar of the Universitat de Barcelona (Spain)

- April 2nd, 2004: *Nahm transform* at the Symplectic Geometry Seminar of the IRMA (Strasbourg, France)

Publications

- *Nahm transform for parabolic integrable connections on the Riemann sphere*, to appear in 2007 in the Mémoires de la Société Mathématique de France

- *Algebraic interpretation of Nahm transform for integrable connections*, submitted

- *Algebraic Nahm transform for parabolic Higgs bundles on* $\mathbf{P}^1$, joint with Kürşat Aker, available online as a Max Planck Institute for Mathematics preprint, vol. **128** (2006)

Teaching

- *Introduction to Mathematics*, 2nd Semester 2006-2007 at the Technical University of Budapest

- *Symplectic Geometry*, 1st Semester 2006-2007 at the University of Szeged

- *Linear Algebra*, 1st Semester 2004-2005 at the University Louis Pasteur (Strasbourg, France)

- *Mathematics with Maple*, 2nd Semester 2002-2003, 1st and 2nd Semesters 2003-2004, 1st Semester 2004-2005 at the University Louis Pasteur

- *Geometry in* 3-*Space*, 1st Semester 2002-2003 and 1st Semester 2003-2004 at the University Louis Pasteur

- *Probability and Statistics*, 2nd Semester 2001-2002, 1st Semester 2002-2003 and 1st Semester 2003-2004 at the University Louis Pasteur

Language skills

- Hungarian: mother tongue

- French: advanced

- English: advanced

- Italian: intermediate

- German: basic

Various

- 2005-2006: Organiser of the Oberseminar of the Max Planck Institute for Mathematics (Bonn, Germany)