

Curriculum Vitae

Cristian Anghel

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1 Personal

Name: Cristian Viorel Anghel

Born: 9.08.1966 Bucharest

Present position: Senior researcher III at IMAR Bucharest

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2 Studies

- High School: "N. Balcescu" Bucharest 1980-1984
- Military Service: September 1984-May 1985.
- Undergraduate Studies: Univ. of Bucharest, 1985-1989, B.S. in Mathematics, June 1989, Mark 10.
- Bachelor Thesis: Classification of algebraic surfaces, Mark 10.
Advisor: Prof. Paltin Ionescu
- Graduate Studies: Univ. of Bucharest, 1989-1990, M.S. in Mathematics, June 1990, Mark 10.
- Master Thesis: Reider theorem and applications, Mark 10.
Advisor: Prof. Paltin Ionescu
- DEA Physique Theorique ENS Paris 1992-1993. Auditeur libre.
- Rapport de Stage de DEA: Theorie des supercordes. june 1993, ENS Paris.
Advisor: Prof. Costas Bachas.
- Doctoral Studies: Univ. Paris XI Orsay, 1990-1994, Ph.D. in Math., June 1994.
- Thesis: Fibres vectoriels stables sur les courbes et les surfaces,
Mention Tres Honorable
Advisor: Prof. Arnaud Beauville

3 Employment

Junior Researcher, IMAR Bucharest, 1990-1994

BGF at Orsay, 1990-1993

ATER at Orsay 1993-1994

Researcher, IMAR Bucharest, 1994-1996
Senior researcher III, IMAR Bucharest, 1996-present

4 Research interests

Algebraic geometry
String theory
Mathematical physics

5 Teaching experience

Calculus and linear algebra-Paris XI Orsay University
Basic algebraic geometry-University of Bucharest
Galois theory-University of Bucharest
Riemann surfaces-SNSB
Sheaf theory-University of Bucharest
SNSB Course - Spring 2016 - Topology of Algebraic Varieties
SNSB Course - Spring 2017 - Algebraic curves and surfaces by examples

6 Talks in Conferences

- $(0; 2)$ - Mirror symmetry and omalous bundles on complete intersection surfaces of general type , Talk at: COST Action MP1405 "Quantum Structure of Spacetime" III. Annual Workshop : Quantum Spacetime '18 , Sofia, 19 - 23 February, (2018).
- Special bundles and superstrings , Talk at: • The 25-th Conference on Applied and Industrial Mathematics - CAIM 2017 , Iasi, 14-17 September (2017).
- Freeness of arrangements and extendability of bundles , Talk at: • International Conference on Recent Trends in Pure and Applied Mathematics , Alba-Iulia, 31 July-4 August (2017).
- Freeness, extendability and arrangements , Talk at: • X. International Symposium: QUANTUM THEORY AND SYMMETRIES , Varna, 19-25 June (2017).
- A stable version of Terao conjecture , Talk at Mathematics-Informatics Colloquium, Curtea de Arges, 10-11 October (2016).
- A problem connected with Terao conjecture , Talk at CAIM 2016, Craiova, 15-18 September (2016).
- $(0; 2)$ -Mirror symmetry on surfaces , Talk at Workshop for Young Researchers in Mathematics, Constanta, 19-22 May (2016).
- Quantum sheaf cohomology on surfaces of general type , at ICTAMI, Alba Iulia, 17 September (2015).
- Heegaard-Floer homology and cuspidal multiple planes , at Workshop for Young Researchers in Mathematics, Constanta, 21 May (2015).
- Horrocks theory and applications , at Workshop for Young Researchers in Mathematics, Constanta, May (2014).

- Geometry of the Sasakura bundle , at Locally free geometry seminars, Bucharest, September (2013).
- Stable bundles on complete intersection Calabi Yau threefolds. ICTAMI 2009 Alba Iulia
- Restriction of stable bundles on a jacobian of genus 2 to an embedded curve. ICTAMI 2007 Alba Iulia
- Extention of instantons. International workshop on Algebraic Geometry, Commutative Algebra and Topology, 2001 Pitesti
- Introduction to physics. Talk given at Dept. of Mathematics of Bucharest University 2000
- Fourier-Mukai transform on abelian surfaces. Algebraic Geometry Summer School, 2000 Pitesti

7 Talks in Seminars (recent)

- Higgs bundles and related topics VIII, at Geometric methods in algebra and topology Seminar, IMAR, 11 May (2018).
- Higgs bundles and related topics VII, at Geometric methods in algebra and topology Seminar, IMAR, 30 April (2018).
- Higgs bundles and related topics VI, at Geometric methods in algebra and topology Seminar, IMAR, 27 April (2018).
- Higgs bundles and related topics V, at Geometric methods in algebra and topology Seminar, IMAR, 20 April (2018).
- Higgs bundles and related topics IV, at Geometric methods in algebra and topology Seminar, IMAR, 13 April (2018).
- Differential equations and hyperplane arrangements IV, at Geometric methods in algebra and topology Seminar, IMAR, 4 April (2018).
- Higgs bundles and related topics III, at Geometric methods in algebra and topology Seminar, IMAR, 30 March (2018).
- Higgs bundles and related topics II, at Geometric methods in algebra and topology Seminar, IMAR, 26 March (2018).
- Higgs bundles and related topics, at Geometric methods in algebra and topology Seminar, IMAR, 23 March (2018).
- Differential equations and hyperplane arrangements III, at Geometric methods in algebra and topology Seminar, IMAR, 9 March (2018).
- Differential equations and hyperplane arrangements II, at Geometric methods in algebra and topology Seminar, IMAR, 7 March (2018).
- Invariants of plane curves and representations of the braid group, at Geometric methods in algebra and topology Seminar, IMAR, 5 January (2018).
- Differential equations and hyperplane arrangements, at Geometric methods in algebra and topology Seminar, IMAR, 3 January (2018).
- Exceptional bundles associated to degenerations of surfaces (after P. Hacking), at Algebraic Geometry Seminar, IMAR, March (2016).
- The BGG correspondence III, at Topology Seminar, IMAR, June (2013).

8 Visits abroad

Oldenburg University 2001

9 Other professional activities

Co-organized an International Conference Algebraic Geometry, Commutative Algebra and Topology, Constanta, 2002

Since August 2017 I Co-organized at IMAR the Seminar Geometric Methods in Algebra and Topology

Reviewing journal articles for Mathematical Reviews

10 Grants

1. Project Director: Vasile Brinzanescu

Title: Invarianti ai structurilor algebrice, geometrice si topologice
ISAGET 2-CE_x06-11-20

Period: July 2006 - June 2008

2. Project Director: Dorin-Mihail Popescu

Title: Cooperare internationala in domeniul algebrei, geometriei
si topologiei

CIDAGT 249-Cex-M3-249-2006

Period: 2006 - 2006

3. Project Director: Nicolae Manolache

Title: Metode combinatoriale, algebrice, topologice in algebra si geometrie
MATAG 05-D11-11/04.10.05

Period: October 2005 - July 2006

4. Title: European algebraic geometry research training network EAGER

Period: 1996 - 2000