Daniel Matei

Researcher

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Teaching SNSB

Spring 2008: Introduction to Hodge Theory.

- Lecture Notes: [Lectures 1-8](#)
- Homework: [Homework 1](#), [Homework 2](#)

Spring 2007: Topology of Plane Algebraic Curves.

- Lecture Notes: [Lectures 1-14](#)
- Homework: [Homework 1](#), [Homework 2](#)
- Teste: [Test 1](#), [Test 2](#)

Research Interests

Geometric topology, algebraic topology, group theory.

- Braids, configuration spaces, knots, links, 3-manifolds.
- Topology of real and complex algebraic varieties.
- Homology of coverings, homology of local systems.
- Solvable and nilpotent quotients, Massey products.

Preprints

Recent preprints (Pdf versions to be made available soon):

Homology of finite index subgroups of finitely presented groups, to appear in Anal. Stiint. Univ. "Al.I.Cuza" Iasi.

Published papers

The following papers can be found on arXiv:

[*Massey products of complex hypersurface complements,*](Massey products of complex hypersurface complements,) *Adv. Stud. Pure Math., 43, Math. Soc. Japan, Tokyo,* ***2006***.

[*Pro-p link groups and p-homology groups,*](Pro-p link groups and p-homology groups,) *(with Jonathan Hillman and Masanori Morishita) Contemp. Math., 416, Amer. Math. Soc., Providence, RI,* ***2006***.

[*Counting homomorphisms onto finite solvable groups,*](Counting homomorphisms onto finite solvable groups,) *(with Alex Suciu) J. Algebra 286,* ***2005***, *no. 1, 161--186.*

[*Hall invariants, homology of subgroups, and characteristic varieties,*](Hall invariants, homology of subgroups, and characteristic varieties,) *(with A. Suciu) Int. Math. Res. Notices,* ***2002***, *no. 9, 465-503.*

[*Cohomology rings and nilpotent quotients of real and complex arrangements,*](Cohomology rings and nilpotent quotients of real and complex arrangements,) *(with A. Suciu) Adv. Stud. in Pure Math., 27, Math. Soc. Japan, Tokyo,* ***2000***.

[*Homotopy types of complements of 2-arrangements in R^4,*](Homotopy types of complements of 2-arrangements in R^4,) *(with A. Suciu) Topology 39,* ***2000***, *no. 1, 61-68.*

Math Preprint Archives

- [*Geometric Topology Archive*](Geometric Topology Archive)
- [*Hopf Topology Archive*](Hopf Topology Archive)
- [*D. Benson, University of Georgia, Cohomology of Groups and Representation Theory*](D. Benson, University of Georgia, Cohomology of Groups and Representation Theory)
- [*Urbana K-theory Archive*](Urbana K-theory Archive)

- *[British Topology Home Page](#)*
- *[Dror Bar-Natan's Bibliography of Vassiliev Invariants](#)*
- *[Topology Atlas](#)*

Other Resources

- *[e-MATH Home Page](#)*
- *[Geometry and Topology Addressbook](#)*
- *[The World-Wide Web Virtual Library: Mathematics](#)*
- *[Penn. State Mathematics Information Servers](#)*
- *[MathSciNet](#)*
- *[Math Resources on the Web](#)*
- *[U.S. Math departments](#)*
- *[American Universities](#)*