Web Pages and Research Interests of Participants

Jeff Achter.
Webpage:  [http://www.math.colostate.edu/~achter/](http://www.math.colostate.edu/~achter/)
Research interests:  Arithmetic geometry. In particular: abelian varieties in positive characteristic.

Lior Bary-Soroker.
Webpage:  [http://www.math.tau.ac.il/~barylior/](http://www.math.tau.ac.il/~barylior/)
Research interests:  Number theory. In particular: field arithmetic, with connections to profinite groups and finite fields.

Frauke Bleher.
Webpage:  [http://homepage.divms.uiowa.edu/~fbleher/](http://homepage.divms.uiowa.edu/~fbleher/)
Research interests:  Representation theory of groups and algebras, with applications to algebraic and arithmetic geometry. In particular: deformations of modules and complexes, orbit closures, degenerations of modules.

Irene Bouw.
Webpage:  [http://www.uni-ulm.de/mawi/rmath/mitarbeiter/bouw.html](http://www.uni-ulm.de/mawi/rmath/mitarbeiter/bouw.html)
Anna Cadoret.
Research interests: Arithmetic geometry and number theory. In particular: étale fundamental groups, ℓ-adic and mod ℓ Galois representations, étale cohomology, curves and abelian schemes, motives, Shimura varieties, algebraic stacks, moduli spaces.
Recent paper: “On the geometric image of \(F_\ell\)-linear representations of étale fundamental groups” with A. Tamagawa.

Ted Chinburg.
Webpage: [http://www.math.upenn.edu/~ted/](http://www.math.upenn.edu/~ted/)
Research interests: Number theory and arithmetic and hyperbolic geometry. In particular: Galois module structure, values of L-functions, hyperbolic three-manifolds, arithmetic groups, deformation theory, group actions on varieties, Arakelov theory, capacity theory.
Recent paper: “Geodesic curves on Shimura surfaces” with M. Stover.

Rachel Davis.
Research interests: Number theory. In particular: Galois representations.
Recent paper: “Arithmetic properties of the Frobenius traces defined by a rational abelian variety” with A.C. Cojocaru, A. Silverberg, K.E. Stange.

Pierre Dèbes.
Research interests: Number theory and arithmetic geometric. In particular: irreducibility of hypersurfaces, indecomposable polynomials, twisted covers, Tchebotarev theorems.
Recent paper: “On the Malle conjecture and the self-twisted cover.”

Taylor Dupuy.
Webpage: [http://math.huji.ac.il/%7Edupuy/](http://math.huji.ac.il/%7Edupuy/)
Recent paper: “Deligne-Illusie classes I: Lifted torsors of lifts of the Frobenius for curves.”
Michel Emsalem.
Webpage: http://math.univ-lille1.fr/d7/user/135
Research interests: Arithmetic geometry. In particular: descent varieties, fundamental groups, lifting Galois sections.

Arno Fehm.
Webpage: http://www.math.uni-konstanz.de/~fehm/
Research interests: Number theory. In particular: function fields, ample fields, Hilbertian fields, Galois representations, henselian valued fields.

Brett Frankel.
Webpage: http://www.math.upenn.edu/~frankelb/
Research interests: Arithmetic geometry. In particular: representation varieties, character varieties, étale fundamental groups.

Marco Garuti.
Webpage: http://mgaruti.weebly.com
Research interests: Algebraic and arithmetic geometry. In particular: algebraic groups and $p$-divisible groups, and curves.

Robert Guralnick.
Webpage: http://dornsife.usc.edu/cf/faculty-and-staff/faculty.cfm?pid=1003312
Research interests: Group theory and its application to problems in arithmetic algebraic geometry. In particular: finite and algebraic groups, linear and permutation representations, coverings of curves, Galois theory.

David Harbater.
Webpage: http://www.math.upenn.edu/~harbater/
Research interests: Algebraic geometry. In particular: Galois theory, fundamental groups, covering spaces, quadratic forms, central simple algebras, local-global principles.
Armin Holschbach.
Webpage: http://www.mathi.uni-heidelberg.de/~holschbach/
Research interests: Arithmetic geometry. In particular: Chebotarev density theorems, étale contractible varieties in positive characteristic.

Valentijn Karemaker.
Webpage: http://www.staff.science.uu.nl/~karem001/
Research interests: Algebraic number theory and arithmetic geometry. In particular: adelic algebraic groups, supersingular curves, abelian varieties, Galois representations.

Kiran Kedlaya.
Webpage: http://math.ucsd.edu/~kedlaya/
Research interests: Number theory and arithmetic algebraic geometry. In particular: $p$-adic analytic methods in arithmetic geometry, $p$-adic Hodge theory, algorithms in arithmetic geometry, interactions between arithmetic geometry and computer science.

Aristides Kontogeorgis.
Webpage: http://users.uoa.gr/~kontogar/

Christian Liedtke.
Webpage: http://www-m11.ma.tum.de/liedtke/
Research interests: Algebraic and arithmetic geometry. In particular: algebraic surfaces, unirational surfaces, K3 surfaces, Enriques surfaces, moduli and lifting, fundamental groups.
Sophie Marques.
Research interests: Arithmetic geometry. In particular: tame actions on group schemes, tame stacks, moduli spaces, ramification theory.

Danny Neftin.
Webpage: [http://www-personal.umich.edu/~neftin/](http://www-personal.umich.edu/~neftin/)
Research interests: Algebra and number theory. In particular: Brauer groups, Galois theory, algebraic number theory, field arithmetic, profinite groups.

Andrew Obus.
Research interests: Arithmetic geometry. In particular: Galois theory, local lifting property, lifting problems of curves, fields of moduli.

Frans Oort.
Webpage: [http://www.staff.science.uu.nl/~oort0109/](http://www.staff.science.uu.nl/~oort0109/)
Research interests: Arithmetic algebraic geometry. In particular: complex multiplication and lifting problems; moduli spaces of abelian varieties and of algebraic curves in positive characteristic, $p$-divisible groups and finite group schemes; Newton Polygons, stratifications and foliations; Hecke orbits on moduli spaces.

Jennifer Park.
Research interests: Number theory and algebraic geometry. In particular: class numbers, hyperelliptic curves, symmetric powers of curves, tropical curves.
Rachel Pries.
Webpage:  http://www.math.colostate.edu/~pries/
Research interests:  Arithmetic geometry: In particular: moduli spaces of curves and abelian varieties, Galois theory of curves in positive characteristic.

Christalin Razafindramahatsiaro.
Webpage:  http://users.aims.ac.za/~talin/
Research interests:  Arithmetic geometry. In particular: arithmetic and geometry of curves.
Recent paper:  “Elliptic curves and congruent numbers.”

Zachary Scherr.
Webpage:  http://www.math.upenn.edu/~zscherr/
Research interests:  Arithmetic geometry and arithmetic dynamics. In particular: abelian surfaces, S-units, Belyi maps, Pell equations.

Jeroen Sijsling.
Webpage:  https://sites.google.com/site/sijsling/
Recent paper:  “On explicit descent of marked curves and maps” with J. Voight.
http://arxiv.org/abs/1504.02814

Jack Sonn.
Webpage:  http://www2.math.technion.ac.il/~sonn/
Research interests:  Algebraic number theory. In particular: Galois theory, Brauer groups of fields.
Recent paper:  “Quadratic residues and difference sets” with V.F. Lev.

Padmavathi Srinivasan.
Webpage:  http://math.mit.edu/~padma_sk/
Research interests:  Algebraic geometry and number theory. In particular: zeta functions, Tamagawa numbers, conductors.
Recent paper:  “Zeta functions of a class of Artin-Schreier curves with many automorphisms” with I. Bouw, W. Ho, B. Malmskog, R. Scheidler, C. Vincent.
http://arxiv.org/abs/1410.7031
Peter Symonds.
Webpage: [http://www.maths.manchester.ac.uk/~pas/](http://www.maths.manchester.ac.uk/~pas/)
Research interests: Interaction between algebra and geometry, using representation theory and cohomology of groups. In particular: profinite groups, group actions on rings and varieties.

Sebastian Tomaskovic-Moore.
Webpage: [http://www.math.upenn.edu/~moose/](http://www.math.upenn.edu/~moose/)
Research interests: Number theory and arithmetic geometry. In particular: Galois structure of $p$-adic unit groups.

Dajano Tossici.
Webpage: [https://sites.google.com/site/dajanotossici/](https://sites.google.com/site/dajanotossici/)
Research interests: Arithmetic geometry. In particular: group schemes, Sekiguchi-Suwa theory, good reduction, extension of torsors.

Daniele Turchetti.
Research interests: Algebraic geometry and number theory, non-Archimedean analytic geometry, interplay between positive and zero characteristic. In particular: ramification theory, lifting problems, Hurwitz trees.

Christelle Vincent.
Research interests: Number theory. In particular: Weierstrass points on Drinfeld modular curves, curves defined over finite fields.

Kenneth Ward.
Webpage: [http://shanghai.nyu.edu/academics/faculty/kenneth-ward](http://shanghai.nyu.edu/academics/faculty/kenneth-ward)
Research interests: Number theory and arithmetic geometry. In particular: point counting, exponential sums, structure of differentials.
Bradley Weaver.
Webpage: http://www.math.virginia.edu/people/brw4sz
Research interests: Arithmetic geometry.

Benjamin Weiss.
Webpage: http://www.math.umaine.edu/~weiss/
Research interests: Analytic and algebraic number theory, convex geometry and its applications. In particular: function fields, local fields, Galois groups, class groups, quadratic forms, applications of Poisson summation.

Stefan Wewers.
Webpage: http://www.uni-ulm.de/mawi/rmath/mitarbeiter/wewers.html
Research interests: Number theory and arithmetic geometry. In particular: quotient singularities and semistable reduction, the local lifting problem, the nonabelian Chabauty method, deformations, Belyi maps, Artin characters, Hurwitz trees.

Michael Zieve.
Webpage: http://www.math.lsa.umich.edu/~zieve/
Research interests: Algebra, number theory, algebraic geometry, dynamical systems, discrete mathematics, complex analysis, algebraic topology, theoretical computer science, and cryptography. In particular: S-units, Belyi maps, Fermat curves and surfaces, polynomial orbits, Chebyshev mappings, monodromy.
Recent paper: “Factorizations of certain bivariate polynomials.”