

Alan Koch

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Education

Ph.D., 1995, State University of New York at Albany.

Thesis: Cyclic Dieudonné Modules, Witt Subgroups, and their Lifts to Characteristic Zero

Adviser: Lindsay Childs

M.A., 1991, State University of New York at Albany.

B.A., 1989, University of Vermont.

Teaching Experience

Associate Professor, 2005-, Agnes Scott College, Decatur, GA.

Assistant Professor, 2000-2005, Agnes Scott College, Decatur, GA.

Assistant Professor, 1998-2000, St. Edward's University, Austin, TX.

Visiting Assistant Professor, 1997-1998, Hope College, Holland, MI.

Adjunct Assistant Professor, 1996-1997, Rensselaer Polytechnic Institute, Troy, NY.

Adjunct Instructor, 1995-1996

State University of New York at Albany, Albany, NY.

Russell Sage College, Troy, NY.

Hudson Valley Community College, Troy, NY.

Adjunct Instructor, 1995

College of St. Rose, Albany, NY.

Empire State College, Albany, NY.

Graduate Assistant / Teaching Fellow, 1990-1995, SUNY Albany, Albany NY.

Awards/Grants

Gary Grant, 2009 for undergraduate collaborative research.

Goizueta Grant, 2008 for undergraduate collaborative research.

Goizueta Grant, 2006 to obtain software *Fathom*.

Agnes Scott College Research Scholars Award, 2004.

Agnes Scott College Research Scholars Award, 2002.

Agnes Scott College Professional Development Award, 2001.

St. Edward's University School of Natural Science's Teaching Excellence Award, 1999-2000.

St. Edward's University Professional Development Grant, 1999-2000.

St. Edward's University Professional Development Grant, 1998-1999.

Research Publications

1. A. Koch, *Lifting Witt Subgroups to Characteristic Zero*, New York Journal of Mathematics **4** (1998) 127-136.

2. A. Koch and J. Panariello, *The Cantor Shadow Problem: Using Geometry to Compute Sums of Cantor Sets*, with James D. Panariello, Pi Mu Epsilon Journal **10** no. 10 (1999) 808-815.

3. A. Koch and C. Noonan, *Fibonacci Sequences in Symmetric Groups*, Pi Mu Epsilon Journal **11** no. 5 (2001), 253-258.

4. A. Koch, *Witt Subgroups and Cyclic Dieudonne Modules Killed By p* , Rocky Mountain Journal of Mathematics **31** no. 3 (2001).

5. -----, *Monogenic Bialgebras Over Finite Fields and Rings of Witt Vectors*, J. Pure Appl. Alg. **163** no. 2 (2001), 193-207.

6. -----, *Monogenic Hopf Algebras and Galois Module Theory*, J. Algebra, **264** issue 2 (2003), 407-418.

7. -----, *The Hopf Algebra of a Uniserial Group*, Pacific Journal of Mathematics **215** no. 2 (2004), 347-356.

8. -----, *Height One Hopf Algebras in Low Ramification*, New York J. Mathematics **10** (2004), 295-306.

9. -----, *Monogenic Hopf Algebras Over Discrete Valuation Rings With Low Ramification*, J. Algebra **286** (2005), 405-420.

10. -----, *Endomorphisms of Monogenic Hopf Algebras*, Communications in Algebra, **35** issue 3 (2007), 747-758.
11. A. Koch and A. Malagon, *p-adic Order Bounded Group Valuations on Abelian Groups*, Glasgow Mathematical Journal **49** (2007), 269-279.
12. A. Koch, *Hopf Orders via Breuil Modules*, J. Algebra **317**, (2007), 291-305.
13. -----, *Realizable Hopf algebras killed by [p] over a discrete valuation ring*, Arabian Journal for Science and Engineering, **33** no. 2c (2008), 315-323.
14. C. Guo and A. Koch, *Bounds for Fibonacci period growth*, Involve, **2** no. 2 (2009), 195-210.

Recent Presentations

The Fibonacci Shuffle: An Encryption System, Walton MathFest, April 2009.

Cryptography as First-Year Seminar: Challenges and Rewards, Joint Meetings of the American Mathematical Society / Mathematical Association of America, January 2009.

The Dieudonné Module of a Hopf Algebra Generated by Two Elements, Joint Meetings of the American Mathematical Society / Mathematical Association of America, January 2008.

The Cantor Shadow Problem, Walton MathFest, April 2007.

The Fibonacci Shuffle: An Encryption System, Walton MathFest, April 2007.

The Breuil Module of a p-Torsion Group Scheme Represented by a Monogenic Hopf Algebra, Joint Meetings of the American Mathematical Society / Mathematical Association of America, January 2007.

The Breuil Module of a Hopf Order in an Elementary Abelian p-Group Ring, Fall Meeting of the Central Section of the American Mathematical Society, October, 2006.

Calculation of Hopf Orders via Breuil Modules, Spring Meeting of the Northeastern Section of the American Mathematical Society, April 2006.

Endomorphisms of Monogenic Hopf Algebras, Joint Meetings of the American Mathematical Society and Mathematical Association of America, January 2006.

Who Writes What When? with Amy Lovell, Spring Annual Research Conference, Agnes Scott College, April 2005.

Monogenic Hopf Algebras in Low Ramification, Joint Meetings of the American Mathematical Society and Mathematical Association of America, January 2004.

The Fibonacci Shuffle: An Encryption System, University of Auburn, Montgomery Campus, October, 2003.

The Hopf Algebra of a Uniserial Group, Joint Meetings of the American Mathematical Society and Mathematical Association of America, January 2003.

The Fibonacci Shuffle, Agnes Scott College ACME Lecture, October, 2002.

A Case For The Three Dollar Bill, MathFest, August 2002.

The Right Way to Make Money, Spring Annual Research Conference, Agnes Scott College, April 2002.

Research Presentations By Students

Chuya Guo, *Bounds for Fibonacci Period Growth*, presented at the Agnes Scott College Spring Annual Research Conference, April 2009.

Sujin Headrick, *Some Regular Subgroups of S_9* , presented at the Agnes Scott College Spring Annual Research Conference, April 2009.

Chuya Guo, *Bounds for Fibonacci Period Growth*, poster, annual meeting of the Southeastern Section of the Mathematical Association of America, March 2009.

Chuya Guo, *Bounds for Fibonacci Period Growth*, Third Biennial Mercer University Undergraduate Research in Mathematics Conference (*MUURMaC*). February, 2009.

Catherine Crompton, *Triangles Using the p-adic Distance*, presented at the Agnes Scott College Spring Annual Research Conference, April 2006.

Catherine Crompton, *Fibonacci Sequences of Matrices*, presented at the Agnes Scott College Spring Annual Research Conference, April 2005.

Catherine Crompton, *Fibonacci Sequences of Matrices*, presented at the Third Annual Harriet J. Walton Symposium on Undergraduate Mathematics Research Morehouse College, April 2005.

Audrey Powers, Agnes Scott College, *Order Bounded Group Valuations*, presented at the Agnes Scott College Spring Annual Research Conference, April 2004.

Audrey Powers, Agnes Scott College, *Order Bounded Group Valuations*, presented at the Second Annual Harriet J. Walton Symposium on Undergraduate Mathematics Research Morehouse College, April 2004.

Leanna Stromberg, Agnes Scott College, *Fibonacci Sequences in Symmetries of the Plane*, presented at the Agnes Scott College Spring Annual Research Conference, April 2003.

Tiffany Troutman, *Computing Fibonacci Periods in Dihedral Groups*, presented at the Fourth Annual Nebraska Conference for Undergraduate Women in Mathematics, February 2003.

Tiffany Troutman, *Fibonacci Sequences in the Dihedral Group*, poster presented at the Joint Meetings of the American Mathematical Society and the Mathematical Association of America, January, 2003.

Christopher Noonan, St. Edward's University, *Fibonacci Sequences over Groups*, presented at the Texas Section Meeting of the Mathematical Association of America, April, 2001 (faculty adviser along with M. Jean McKemie).

Tom Olsen, St. Edward's University, *A Study of Shadows Cast by Two Dimensional and Three Dimensional Cross Products of Cantor Sets*, presented at the Texas Section Meeting of the Mathematical Association of America, April, 2001 (adviser along with M. Jean McKemie).

Student Publications

C. Crompton, *Some Geometry of the p-adic Rationals*, Rose-Hulman Undergraduate Mathematics Journal , vol. 8 2007.

C. Crompton, *Fibonacci Sequences in Matrices*, Proceedings of the 3rd Annual Harriet J. Walton Symposium for Undergraduate Research.

A. Powers, *Order Bounded Group Valuations*, Proceedings of the 2nd Annual Harriet J. Walton Symposium for Undergraduate Research.

Recent Service and Professional Activities

Chair, Faculty Executive Committee, 2008 - 2009.

Member, Finance Subcommittee of the Board of Trustees, 2008 - .

Member, Strategic Financial Planning Task Force, 2008 - .

Member, Faculty Executive Committee, 2007 - .

Member, Vice President for Institutional Advancement Search Committee, 2008.

Member, Director of Faculty Grants Search Committee, 2008.

Member, Budget Workgroup, 2007 - 2008.

Member, Strategic Planning Coordinating Committee, 2007 - .

Member, Retiree Health Care Committee, 2007.

Member, Grievance Committee, 2006 - 2007.

Member, Science Center Advisory Group, 2005 - 2008.

Member, Undergraduate Teacher Education Committee, 2005 - 2008.

Co-convener, Conference of Natural Science and Mathematics, 2004 - 2006.

Member, Pre-Health Advisory Committee, 2004 - 2005.

Reader, Advanced Placement Calculus, 2003 - 2005.

Member, Curriculum Committee, 2002 - 2005.

Member, Spring Annual Research Conference (SpARC) Committee, 2001 - 2005, co-chair 2002 - 2005.

Member, Academic Computing Committee, 2001-2004, chair 2002 – 2003.

Faculty Advisor, Agnes Scott College Chess Club, 2001-2003.

Faculty Advisor, Agnes Scott College Track Club, 2002-2003.

Writer/Grader/Organizer, Agnes Scott College Math Problem of the Week, 2000 -.

Principal Trumpet, Agnes Scott College Community Orchestra, 2000-.

Leader, FYI, 2001, 2002.

Member, Mathematics Association of America, 1995 - .

Member, American Mathematical Society, 1990 - .

Reviews

1. A. Koch, Rev. *Finite Flat Group Schemes* by J. Tate, Zentralblatt für Mathematice Zbl.
2. -----, Rev. *On Pointed Hopf Algebras of Dimension 2^n* by S. Caenepeel and S. Dascalescu, Zbl.
3. -----, Rev. *On Formal Quantum Group Laws* by R. Holtkamp, Zbl.
4. -----, Rev. *A Method of Construction of Finite-Dimensional Triangular Semisimple Hopf Algebras* by P. Etingof and S. Gelaki, Zbl.
5. -----, Rev. *Cyclic Cohomology and Hopf Algebras* by A. Connes and H. Moscovici, Zbl.
6. -----, Rev. *On Semisimple Hopf Algebras of Dimension pq^2* by S. Natale, Zbl.
7. -----, Rev. *Chern Class Formulas for Quiver Varieties* by A. Buch and W. Fulton, Zbl.
8. -----, Rev. *Formal Brauer Groups Arising From Certain Weighted K3 Surfaces* by A. Yui, Zbl.
9. -----, Rev. *On The Tate-Shafarevich Group Of Certain Elliptic Curves* by F. Hajir and Fernando R. Villegas, Zbl.
10. -----, Rev. *Parabolic Subgroups with Abelian Unipotent Radical as a Testing Site for Invariant Theory* by D. Panyushev, Zbl.
11. -----, Rev. *The Grothendieck-Riemann-Roch Theorem For Group Scheme Actions* by B. Kock, Zbl.

12. -----, Rev. *On Some Examples of Simple Quantum Groups* by C. Hoffman, Zbl.
13. -----, Rev. *Quasi-Hopf Algebra Actions and Smash Products* by D. Bulacu, F. Panaite, and F. Van Oystaeyen, Zbl.
14. -----, Rev. *Generations of Invariants* by L. Chiang, H. Chu, and M.-c. Kang, Zbl.
15. -----, Rev. *Stable Rationality of the Group $Spin_{10}$* by V. E. Kordonskij, Zbl.
16. -----, Rev. *Un Groupe Unipotent Universal* by A. Pianzola, Zbl.
17. -----, Rev. *Twin Triangular Derivations* by J. Deveney and D. Finston, Zbl.
18. -----, Rev. *Existence of Integrals for Finite Dimensional Quasi-Hopf Algebras* by F. Panaite and F. Van Oystaeyen, Zbl.
19. -----, Rev. *Hopf Algebra Structure Over Crossed Coproducts* by S. Wang, D. Wang, and Z. Yao, Zbl.
20. -----, Rev. *The Coinduced Functor and Homological Properties of Hopf Modules* by T. Liand and Z. Wang, Zbl.
21. -----, Rev. *The Duality Theorem for Coactions of Multiplier Hopf Algebras* by A. Van Daele and Y. Zhang, Zbl.
22. -----, Rev. *Quasi-Triangular Structures on Hopf algebras with Positive Bases* by J.-H. Lu, M. Yan, and Y. Zhu, Zbl.
23. -----, Rev. *Higher Conjugation Cohomology in Commutative Hopf Algebras* by M.D. Crossely and S. Whitehouse, Zbl.
24. -----, Rev. *On Cocommutative Hopf Algebras of Finite Representation Type* by R. Farnsteiner, Zbl.
25. -----, Rev. *Stanley Symmetric Functions and Quiver Varieties* by A. S. Buch, Zbl.
26. -----, Rev. *Cohomology and Projectivity of Modules for Finite Group Schemes* by C. P. Bendel, Zbl.
27. -----, Rev. *Infinitesimal Unipotent Group Schemes of Complexity 1* by R. Farnsteiner, G. Röhrle, and D. Voigt, Zbl.
28. -----, Rev. *On the Associative Analog of Lie Bialgebras* by M. Aguiar, Zbl.
29. -----, Rev. *Smooth Automorphism Group Schemes* by D. Farkas, C. Geiss, and E. Marcos, Zbl.
30. -----, Rev. *On the Braided Structures of Bicrossproduct Hopf Algebras* by S.-h. Wang, Zbl.
31. -----, Rev. *Classification of Restricted Lie Algebras with Tame Principal Block* by R. Farnsteiner and A. Skowroński, Zbl.

32. -----, Rev. *The Exterior Algebra and "Spin" of an Orthogonal g -Module* by D. Panyushev, Zbl.
33. -----, Rev. *On the Even Powers of the Antipode of a Finite-Dimensional Hopf Algebra* by D. Radford and H.-J. Schneider, Zbl.
34. -----, Rev. *Categorical Methods in Hopf Algebras* by D. Wang, S. Yang, and Q. Ji, Zbl.
35. -----, Rev. *Almost Split Sequences for Comodules* by W. Chin, M. Kleiner, and D. Quinn, Zbl.
36. -----, Rev. *Representations of Infinitesimal Groups of Characteristic 2* by R. Farnsteiner and D. Voigt, Zbl.
37. -----, Rev. *La Table de Caracteres Pour Une Algebre de Hopf* by A. El Alaoui, Zbl.
38. -----, Rev. *The Display of a Formal p -Divisible Group* by T. Zink, Zbl.
39. -----, Rev. *Computing the Frobenius-Schur Indicator for Abelian Extensions of Hopf Algebras* by Y. Kashina, G. Mason, and S. Montgomery, Zbl.
40. -----, Rev. *On Grothendieck's Conjecture About Principal Homogeneous Spaces for Some Classical Groups* by K. Zainüllin, Zbl.
41. -----, Rev. *Sur Les Plongements de Demazure* by D. Luna, Zbl.
42. -----, Rev. *On Actions of Infinitesimal Group Schemes* by G. Restuccia and H.-J. Schneider, Zbl.
43. -----, Rev. *Sur L'irréductibilité de la Variété Commutante d'une Paire Symétrique Réductive de Rang 1* by H. Sabourin, R. Yu, Zbl.
44. -----, Rev. *Geometric Representation Theory of Restricted Lie Algebras* by I. Mirković and D. Rumynin, Zbl.
45. -----, Rev. *Hopf-Galois Systems* by J. Bichon, Zbl.
46. -----, Rev. *Braided Hopf Algebras Arising From Matched Pairs of Groups* by N. Andruskiewitsch and S. Natale, Zbl.
47. -----, Rev. *Normality of Orbit Closures for Dynkin Quivers of type A_n* by G. Bobiński and G. Zwara, Zbl.
48. -----, Rev. *Families of p -Divisible Groups with Constant Newton Polygon* by F. Oort and T. Zink, Zbl.
49. -----, Rev. *Lie Algebras and Separable Morphisms in Pro-Affine Algebraic Groups* by N. Nahlus, Zbl.
50. -----, Rev. *On Semiregular Nilpotent Orbits in Simple Lie Algebras of Type D* by B.

Arbour and D. Đoković, Zbl.

51. -----, Rev. *On Infinitesimal Groups of Tame Representation Type* by R. Farnsteiner, D. Voigt, Mathematical Reviews (MR) (also appears in Zbl).
52. -----, Rev. *Finite group torsors for the qfh topology* by J.F. Jardine, MR.
53. -----, Rev. *Nilpotent Orbits of the Complex Symmetric Pairs whose Restricted Root Systems are of Type F4* by D. Đoković and J. Sekiguchi, Zbl.
54. -----, Rev. *An Introduction to Algebraic Geometry and Algebraic Groups* by M. Geck, Zbl.
55. -----, Rev. *Schemes of Tori and the Structure of Tame Restricted Lie Algebras* by R. Farnsteiner and D. Voigt, Zbl.
56. -----, Rev. *From Lie Algebras of Vector Fields to Algebraic Group Actions* by A. Cohen, J. Draisma, Zbl.
57. -----, Rev. *Torsors Under Finite and Flat Group Schemes of Rank p with Galois Action* by M. Saïdi, MR.
58. -----, Rev. *"Geometric Quotients are Algebraic Schemes" Based on Fogarty's Idea* by M. Hashimoto, MR.
59. -----, Rev. *Two Characterizations of Finite Quasi-Hopf Algebras* by P. Schauenburg, Zbl.
60. -----, Rev. *A Quasi-Hopf Algebra Freeness Theorem* by P. Schauenburg, Zbl.
61. -----, Rev. *Foliations in Moduli Spaces of Abelian Varieties* by F. Oort, Zbl.
62. -----, Rev. *Cyclic Hopf Orders Defined By Isogenies of Formal Groups* by L. Childs and R. Underwood, Zbl.
63. -----, Rev. *Representability of Hom Implies Flatness* by N. Nitsure, MR.
64. -----, Rev. *A Non-split Torsor with Trivial Fixed Point Obstruction* by Z. Reichstein and B. Youssin, Zbl.
65. -----, Rev. *Essential Dimensions of Algebraic Groups and a Resolution Theorem for G -Varieties (With an Appendix by János Kollár and Endre Szabó)* by Z. Reichstein and B. Youssin, Zbl.
66. -----, Rev. *Decomposable Forms and Automorphisms* by L. Summerer, Zbl.
67. -----, Rev. *Finite group torsors for the qfh topology* by J.F. Jardine, Zbl.
68. -----, Rev. *Some Cases of Extensions of Twisted Group Schemes over a Discrete Valuation Ring* by T. Ohno, Zbl.
69. -----, Rev. *Teichmüller Groupoids and Galois Action* by T. Ichikawa, Zbl.

70. -----, Rev. *A Converse to Mazur's Inequality for Split Classical Groups* by C. Lucarelli, MR.
71. -----, Rev. *Finite Group Schemes and a Conjecture of Kitaoka* by M. Mazur, Zbl.
72. -----, Rev. *Grothendieck Classes of Quiver Varieties* by A. Buch, Zbl.
73. -----, Rev. *Invariants of Finite Hopf Algebras* by S. Skryabin, Zbl.
74. -----, Rev. *Invariants of Finite Group Schemes* by S. Skryabin, Zbl.
75. -----, Rev. *On Semisimple Hopf Algebras of Dimension pq^r* by S. Natale, Zbl.
76. -----, Rev. *A Class of Briaded Hopf Algebras* by S. Wang and S. Wang, MR.
77. -----, Rev. *A Birational Invariant for Algebraic Group Actions* by Z. Reichstein and B. Youssin, Zbl.
78. -----, Rev. *Splitting Fields of G -Varieties* by Z. Reichstein and B. Youssin, Zbl.
79. -----, Rev. *An Orbit Closure for a Representation of the Kronecker Quiver With Bad Singularities* by G. Zwara, Zbl.
80. -----, Rev. *Series of Nilpotent Orbits* by J. M. Landsberg, L. Manivel, and B. Westbury, Zbl.
81. -----, Rev. *On the Verschiebung Morphism for $G^{(\lambda)}$* by M. Yato, MR.
82. -----, Rev. *Varieties of Pairs of Nilpotent Matrices Annihilating Each Other* by J. Schröer, Zbl.
83. -----, Rev. *Group Schemes and Buildings of Exceptional Groups over a Local Field. The Group G_2* by W. Gan and J.-K. Yu, Zbl.
84. -----, Rev. *Complexity of Homogeneous Spaces and Growth of Multiplicities* by D. A. Timashev, Zbl.
85. -----, Rev. *Alternating Signs of Quiver Coefficients* by A. Buch, Zbl.
86. -----, Rev. *A Hopf Algebraic Morita Invariant* by T. Takeuchi, Zbl.
87. -----, Rev. *Hopf Duals, Algebraic Groups, and Jordan Pairs* by J. Faulkner, Zbl.
88. -----, Rev. *Splittings of Bicommutative Hopf Algebras* by N. Kitchloo, G. Laures, and W. S. Wilson, Zbl.
89. -----, Rev. *Sur la Complication des Algèbres d'Invariants Combinats* by M. Meulien, Zbl.
90. -----, Rev. *Elementary Abelian Hopf Galois Structures and Polynomial Formal Groups* by L. Childs, MR.

91. -----, Rev. *Lectures on the Cohomology of Finite Group Schemes* by E. Friedland, Zbl.
92. -----, Rev. *A Note on a Class of Rings Found as $G_{\{a\}}$ -Invariants for Locally Trivial Actions on Normal Affine Varieties* by K. Jorgenson, Zbl.
93. -----, Rev. *The Restricted Nullcone* by J. Carlson, Z. Lin, D. Nakano, and B. Parshall, Zbl.
94. -----, Rev. *Teichmüller Groupoids and their Applications* by T. Ichikawa, Zbl.
95. -----, Rev. *Finite Equivalence Relations on Algebraic Varieties and Hidden Symmetries* by A. Bialynicki-Birula, Zbl.
96. -----, Rev. *On the Closures of Orbits of Fourth Order Matrix Pencils* by D.D. Pervushin, Zbl.
97. -----, Rev. *Tangent Algebraic Subvarieties of Vector Fields* by J. Sancho de Salas, Zbl.
98. -----, Rev. *Integrals in Hopf Algebras over Rings* by C. Lomp, MR.
99. -----, Rev. *Representation-Theoretic Support Spaces for Finite Group Schemes* by E. Friedlander and J. Pevtsova, MR.
100. -----, Rev. *Integrals in Hopf Algebras over Rings* by C. Lomp, MR.
101. -----, Rev. *Representation-Theoretic Support Spaces for Finite Group Schemes* by E. Friedlander and J. Pevtsova, MR.
102. -----, Rev. *On Non-Commutative Extensions of $G_{\{a\}}$ by $G_{\{m\}}$ over an $F_{\{p\}}$ -algebra* by Y. Haraguchi, MR.
103. -----, Rev. *Simple p -Kernels of p -Divisible Groups* by F. Oort, MR.
104. -----, Rev. *Duality for Hopf Orders* by R. Underwood and L. Childs, MR.
105. -----, Rev. *Sur la Complication des Algèbres d'Invariants Combinats* by M. Meulin, Zbl.
106. -----, Rev. *Lectures on the Cohomology of Finite Group Schemes* by E. Friedland, Zbl.
107. -----, Rev. *A Note on a Class of Rings Found as $G_{\{a\}}$ -Invariants for Locally Trivial Actions on Normal Affine Varieties* by K. Jorgenson, Zbl.
108. -----, Rev. *The Restricted Nullcone* by J. Carlson, Z. Lin, D. Nakano, and B. Parshall, Zbl.
109. -----, Rev. *Teichmüller Groupoids and their Applications* by T. Ichikawa, Zbl.
110. -----, Rev. *Finite Equivalence Relations on Algebraic Varieties and Hidden Symmetries* by A. Bialynicki-Birula, Zbl.

111. -----, Rev. *On the Closures of Orbits of Fourth Order Matrix Pencils* by D.D. Pervushin, Zbl.
112. -----, Rev. *Tangent Algebraic Subvarieties of Vector Fields* by J. Sancho de Salas, Zbl.
113. -----, Rev. *A Desingularization of Real Differentiable Actions of Finite Groups* by E. Feichtner and D. Kozlov, Zbl.
114. -----, Rev. *Singular Poisson-Kähler Geometry of Scorza Varieties and their Secant Varieties* by J. Huebschmann, Zbl.
115. -----, Rev. *Curves and Quivers* by L. Le Bruyn, Zbl.
116. -----, Rev. *Les Degrés des Variétés des Matrices Nilpotents* by P.A. Fonseca Machado and I. Vainsencher, Zbl.
117. -----, Rev. *Interpolation on Algebraic Groups* by S. Fischler, Zbl.
118. -----, Rev. *Some Rationality Properties of Observable Groups and Related Questions* by N. Q. Thǎng and D. P. Bǎc, Zbl.
119. -----, Rev. *The Fundamental Correspondences in Super Affine Groups and Super Formal Groups* by A. Masuoka, Zbl.
120. -----, Rev. *Schémas en Groupes et Immeubles des Groupes Exceptionnels sur un Corps Local. Deuxième Partie: Les Groupes F4 et E6* by W. Gan and J.-K. Yu, Zbl.
121. -----, Rev. *Orbit Closures for Representations of Dynkin Quivers are Regular in Codimension Two* by G. Zwara, Zbl.
122. -----, Rev. *The Equivariant Cohomology Ring of Regular Varieties* by M. Brion and J. Carrell, Zbl.
123. -----, Rev. *On the Descriptions of $\mathbb{Z}/p^2\mathbb{Z}$ -Torsors by the Kummer-Artin-Schreier-Witt Theory* by K. Tsuchiya, Zbl.
124. -----, Rev. *Degenerations of $k[t]/(t^r)$ -Modules Giving Stratification of the Orbits* by S.O. Smalo and A. Valenta, Zbl.
125. -----, Rev. *Hopf Powers and Orders for some Bismash Products* by R. Landers, S. Montgomery, and P. Schauenburg, Zbl.
126. -----, Rev. *Nilpotent Orbits over Ground Fields of Good Characteristic* by G. McNinch, Zbl.
127. -----, Rev. *One-Sided Hopf Algebras* by S. Romo-Rodriguez and E. Taft, Zbl.
128. -----, Rev. *Hopf Galois and Bi-Galois Extensions* by P. Schauenburg, Zbl.
129. -----, Rev. *Algebra Schemes and their Representations* by A. Alvarez, C.

- Sancho, and P. Sancho, Zbl.
130. -----, Rev. *Character Products of Association Schemes* by A. Hanaki, Zbl.
131. -----, Rev. *On the Extensions of $W_{\{n\}}$ by $G^{\{\mu\}}$ over a $Z_{\{p\}}$ -algebra* by Y. Niitsuma, Zbl.
132. -----, Rev. *On Non-Commutative Extensions of $G_{\{a\}}$ by $G_{\{m\}}$ over an $F_{\{p\}}$ -algebra* by Y. Haraguchi, Zbl.
133. -----, Rev. *Motivic Haar Measure on Reductive Groups* by J. Gordon, Zbl.
134. -----, Rev. *Plethystic Algebra* by J. Borger and B. Wieland, Zbl.
135. -----, Rev. *Involutions of $SL(n,k)$* by A. Helminck, L. Wu, and C. Dometrius, Zbl.
136. -----, Rev. *Introduction aux Algèbres de Hopf pour des Questions Diophantiennes* by M. Waldschmidt, Zbl.
137. -----, Rev. *Generic Extensions of Prinjective Modules* by J. Kosakowska, Zbl.
138. -----, Rev. *Adjacency Preserving Bijection Maps of Hermitian Matrices over any Division Ring with an Involution* by L. Huang, Zbl.
139. -----, Rev. *Spin Groups over a Commutative Ring and the Associated Root Data (Odd Rank Case)* by H. Ikai, MR.
140. -----, Rev. *Detection Theorem for Finite Group Schemes* by A. Suslin, MR.
141. -----, Rev. *On Quasi-Reductive Group Schemes* by G. Prasad and J.-K. Yu, MR.
142. -----, Rev. *Galois Modules Arising From Falting's Strict Modules* by V. Abrashkin, MR.
143. -----, Rev. *The Tame Infinitesimal Groups of Odd Characteristic* by R. Farnsteiner and A. Skowroński, MR and Zbl. 1.
144. -----, Rev. *Dimensions of Some Affine Deligne-Lusztig Varieties* by U. Görtz, T. Haines, R. Kottwitz, and D. Reuman, Mathematical Reviews (MR).
145. -----, Rev. *The Dimension of Some Affine Deligne-Lusztig Varieties* by E. Viehmann (MR).
146. -----, Rev. *On Non-Commutative Extensions of $\hat{G}_{\{a\}}$ by $\hat{G}^{\{M\}}$ over an $F_{\{p\}}$ -algebra* by Y. Haraguchi (MR) .
147. -----, Rev. *Canonical and Quasi-Canonical Liftings* by S. Wewers (MR).
148. -----, Rev. *Lifting Endomorphisms of Formal $O_{\{k\}}$ -Modules* by E. Viehmann (MR) .

149. -----, Rev. *Endomorphisms of Quasi-Canonical Lifts* by I. Vollaard (MR).
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