

CURRICULUM VITAE

as of April 2014

TITLE, NAME, LAST NAME : Professor Ergün Yalçın

1. PERSONAL DATA

- 1.1 BIRTH DATE AND PLACE : 11 June 1971, İzmir, Turkey.
1.2 ADDRESS : Bilkent Üniversitesi
Matematik Bölümü
06800 Bilkent, Ankara,
TURKEY
1.3 PHONE : 90-312-290 2106
1.4 FAX : 90-312-290 5097
1.5 E-MAIL : yalcine@fen.bilkent.edu.tr
1.6 URL : <http://www.fen.bilkent.edu.tr/~yalcine>
1.7 MARITAL STATUS : Married, three children.

2. ACADEMIC DEGREES

- | | |
|---|------|
| 2.1 Professor, Mathematics
Bilkent University, Turkey | 2012 |
| 2.2 Associate Professor, Mathematics
Bilkent University, Turkey | 2007 |
| 2.3 Doçent, Algebraic Topology
YÖK, Higher Education Council of Turkey | 2005 |
| 2.4 Ph.D., Mathematics
University of Wisconsin, U.S.A. | 1998 |
| 2.5 M.S., Mathematics
University of Wisconsin, U.S.A. | 1994 |

2.6 B.S., Electrical and Electronics Engineering 1993
Bilkent University, Turkey

3. EMPLOYMENT HISTORY

- 3.1 6/2012-Present Professor,
Department of Mathematics,
Bilkent University,
Ankara, Turkey
- 3.2 9/2007-6/2012 Associate Professor,
Department of Mathematics,
Bilkent University,
Ankara, Turkey
- 3.3 9/2007-8/2008 Visiting Professor (Sabbatical leave),
Department of Mathematics,
McMaster University,
Hamilton, Canada
- 3.4 3/2001-8/2007 Assistant Professor,
Department of Mathematics,
Bilkent University,
Ankara, Turkey
- 3.5 9/2000-3/2001 Visiting Assistant Professor,
Department of Mathematics,
Bilkent University,
Ankara, Turkey
- 3.6 9/1999-8/2000 Postdoctoral Fellow,
Department of Mathematics,
McMaster University,
Hamilton, Canada

- 3.7 9/1998-8/1999 Visiting Lecturer,
Department of Mathematics,
Indiana University,
Bloomington, Indiana, U.S.A.
- 3.8 9/1997-8/1998 Research Assistant,
Department of Mathematics,
University of Wisconsin,
Madison, Wisconsin, U.S.A.
- 3.9 9/1994-8/1997 Teaching Assistant,
Department of Mathematics,
University of Wisconsin,
Madison, Wisconsin, U.S.A.

4. SCHOLARSHIPS, AWARDS, AND HONORS

- 4.1 Member of the Science Academy Association 2013
- 4.2 Masatoshi Gündüz İkedä Award 2009
Turkish Math Society
- 4.3 Hooker Distinguished Visiting Professor Award 2007, 2014
McMaster University, Hamilton, Canada
- 4.4 Tübitak Encouragement Award (Teşvik Ödülü) 2007
Turkish Scientific and Technical Research Council
- 4.5 Distinguished Young Scientist Award (TÜBA-Gebip) 2005-2008
Turkish Academy of Sciences
- 4.6 Research Assistantship 1997-1998
University of Wisconsin

4.7 TÜBİTAK-NATO Scholarship for Ph.D. 1993-1994
Turkish Scientific and Technical Research Council

5. PROFESSIONAL DUTIES

5.1 Member of the Editorial Board 2009-2014
of the Turkish Journal of Mathematics

5.2 Member of the Scientific Committee 2010, 2011
of the National Mathematics Symposium

5.3 Member of the Algebra Panel for Tübitak 1001 Grant 2011

5.4 Member of the Organizing Committees for
Antalya Algebra Days 2000, 2005,
2009, and 2013
Bilkent Algebra Days 2001, 2002

5.5 Referee for the following Journals:
Advances in Mathematics
Algebraic and Geometric Topology
Journal of Algebra
Bulletin of London Mathematics Society
Proceedings of Edinburg Mathematical Society
Algebra and Number Theory
Pacific Journal of Mathematics
Journal of Group Theory
Journal Algebras and Representation Theory
Journal of the Australian Mathematical Society
Turkish Journal of Mathematics
Filomat
Mathematische Nachrichten
Mathematical Communications
International Electronic Journal of Algebra

6. MEMBERSHIPS

- | | | |
|-----|-------------------------------|------------|
| 6.1 | American Mathematical Society | since 1994 |
| 6.2 | Turkish Math Society | since 2013 |

7. INVITED LECTURES AND TALKS

- | | | |
|-----|--|-------------------|
| 7.1 | “Free actions on products of spheres at high dimensions”, British Topology Meeting, 2013. (60 min.) | Aberdeen, 2013 |
| 7.2 | “Free actions on products of spheres at high dimensions”, Workshop on Group Actions and Homotopy Theory. (45 min.) | Copenhagen, 2013. |
| 7.3 | “A gentle introduction to Mackey functors”, Topology Learning Seminar. (45 min.) | Copenhagen, 2013. |
| 7.4 | “Constructing free actions on products of spheres using left stable bisets”, Conference on Bisets in Algebra and Topology. (50 min.) | Amiens, 2012 |
| 7.5 | “Free action on products of spheres at high dimensions”, Boğaziçi Mathematics Day. (45 min.) | İstanbul, 2012 |
| 7.6 | “Cohomology of 2-power exact extensions and quadratic maps”, Çankaya University Department Seminar. (50 min.) | Ankara, 2012 |
| 7.7 | “Productive elements in group cohomology and the rank conjecture”, Workshop on Homotopical Approaches to Group Actions. (45 min.) | Copenhagen, 2011 |
| 7.8 | “A problem in commutative algebra related to group actions”, Karatekin Mathematics Days. (45 min.) | Çankırı, 2011 |
| 7.9 | “Grup etkileri ve zincir kompleksleri”, I. Cebir Topoloji Çalıştayı. (45 min.) | Adana, 2011 |

- 7.10 “Fusion systems and constructions of finite group actions on products of spheres”, Boğaziçi University Mathematics Colloquium. İstanbul, 2011
- 7.11 “Fusion systems and constructions of finite group actions on products of spheres”, METU Mathematics Colloquium. Ankara, 2011
- 7.12 “Fusion systems and constructing free actions on products of spheres”, Workshop on Group Cohomology. Oberwolfach, 2010
- 7.13 “Cohomology of Bockstein closed 2-power exact group extensions”, Cemal Koç Algebra Workshop. (45 min.) İstanbul, 2010
- 7.14 “Uzayların simetrileri”, TOBB-ETÜ Mathematics Department Undergraduate Seminar. Ankara, 2010
- 7.15 “Koszul resolutions and the Lie algebra cohomology”, METU-Bilkent Algebraic Geometry Seminar. Ankara, 2010
- 7.16 “Symmetries of products of spheres”, METU Colloquium (Ikeda Award Talk). Ankara, 2010
- 7.17 “Uzayların simetrileri ve homoloji cebiri”, Ankara University Department Seminar. Ankara, 2010
- 7.18 “Acyclic complexes over the orbit category”, METU Topology Seminar. Ankara, 2009
- 7.19 “Wall’s finiteness obstruction and its generalizations”, METU-Bilkent Algebraic Geometry Seminar. Ankara, 2009
- 7.20 “Grupların kohomolojisi ve uzayların simetrileri”, Ulusal Matematik Sempozyumu (Dizi konuşma). Şirince, 2009
- 7.21 “Constructing group actions via orbit categories”, Workshop on Manifold Perspectives. Oberwolfach, 2009

- 7.22 “Cohomology length of a p -group”,
Istanbul Bilgi University Department Seminar. Istanbul, 2008
- 7.23 “Group cohomology and group actions on cell complexes”, Koç University Department Seminar. Istanbul, 2008
- 7.24 “Group cohomology and group actions”,
University of Rochester Topology Seminar. Rochester, 2008.
- 7.25 “The Euler class of a subset complex”,
McMaster University Topology Seminar. Hamilton, 2007.
- 7.26 “Group cohomology and group actions”,
McMaster University Colloquium (Hooker Lecture). Hamilton, 2007
- 7.27 “Vanishing products of one-dimensional classes in group cohomology”, Antalya Algebra Days IX. (30 min.) Antalya, 2007
- 7.28 “Group cohomology and group actions”,
METU Math Department General Seminar. Ankara, 2007
- 7.29 “Serre’s theorem in group cohomology”,
Bilkent-METU Algebraic Geometry Seminar. Ankara, 2007
- 7.30 “The top Stiefel-Whitney class of an augmented regular representation”, METU-Bilkent Algebraic Geometry Seminar. Ankara, 2006
- 7.31 “Generalized Burnside rings and group cohomology”,
McMaster University Topology Seminar. Hamilton, 2006
- 7.32 “Generalized Burnside rings and group cohomology”,
University of Rochester Topology Seminar. Rochester, 2006
- 7.33 “Unit groups of Burnside rings”,
McMaster University Topology Seminar. Hamilton, 2006

- 7.34 “Bockstein closed central extensions of elementary abelian 2-groups I: Binding operators”, Conference on Cohomology of Groups. Oberwolfach, 2005
- 7.35 “Generalized Burnside rings and group cohomology”, Antalya Algebra Days VII. (30 min.) Antalya, 2005
- 7.36 “An induction theorem for the unit groups of Burnside rings of 2-groups”, Antalya Algebra Days VI. (30 min.) Antalya, 2004
- 7.37 “Steenrod closed ideals in the polynomial algebra over $GF(2)$ ”, METU Algebra Seminar. Ankara, 2004
- 7.38 “Quadratic maps”, METU Math Department General Seminar. Ankara, 2004
- 7.39 “Group extensions and quadratic maps”, Boğaziçi University Colloquium. İstanbul, 2004
- 7.40 “An induction theorem for the unit groups of Burnside rings of 2-groups”, Gazi Algebra Day. Ankara, 2003
- 7.41 “On nilpotent ideals in the cohomology ring of a finite group”, Conference on Hilbert Smith Conjecture. İstanbul, 2002
- 7.42 “A new notion of rank for finite supersolvable groups and free linear actions on products of spheres”, Conference on Groups, Representations, and Cohomology. Boston, 2002
- 7.43 “A new notion of rank for finite supersolvable groups and free linear actions on products of spheres”, Antalya Algebra Days IV. Antalya, 2002
- 7.44 “Varieties of cohomology rings of finite groups”, METU-Bilkent Algebraic Geometry Seminar. Ankara, 2001
- 7.45 “On nilpotent ideals in the cohomology ring of a finite group”, Conference on Algebraic Topology. (30 min.) Gdansk, 2001

- 7.46 “On nilpotent ideals in the cohomology ring of a finite group”, Antalya Algebra Days III. (30 min.) Antalya, 2001
- 7.47 “Groups from a geometric point of view”, Bilkent University General Seminar. Ankara, 2001
- 7.48 “Simplicial complexes associated to pairwise non-commuting sets in groups”, Feza Gursey Institute Colloquium. İstanbul, 2001
- 7.49 “Simplicial complexes associated to pairwise non-commuting sets in groups”, Middle East Technical University General Seminar. Ankara, 2001
- 7.50 “Set covering and Serre’s theorem on the cohomology algebra of a p -group”, Middle East Technical University General Seminar. Ankara, 2000
- 7.51 “Set covering and Serre’s theorem on the cohomology algebra of a p -group”, Bilkent University General Seminar. Ankara, 2000
- 7.52 “Set covering and Serre’s theorem on the cohomology algebra of a p -group”, XIII. National Mathematics Symposium. (Genç Araştırmacı) İstanbul, 2000
- 7.53 “Set covering and Serre’s theorem on the cohomology algebra of a p -group”, Conference on Cohomology of Groups. Oberwolfach, 2000
- 7.54 “Set covering and Serre’s theorem on the cohomology algebra of a p -group”, Cohomology of Groups Conference at Georgia University. (30 min.) Athens, 2000
- 7.55 “Free actions of p -groups on products lens spaces”, McMaster University Topology Seminar. Hamilton, 2000

- 7.56 “Space form problem”,
McMaster University Topology Seminar. Hamilton, 2000
- 7.57 “Group actions and group extensions”,
McMaster University Topology Seminar. Hamilton, 1999
- 7.58 “Free, linear actions on products of spheres”,
Antalya Algebra Days II. (30 min.) Antalya, 1999
- 7.59 “Free, linear actions on products of spheres”,
Indiana University Algebra Seminar. Bloomington, 1999
- 7.60 “Free actions of p -groups on products of lens spaces”,
Indiana University Topology Seminar. Bloomington, 1999
- 7.61 “Group actions and group extensions”,
Wayne State University Topology Seminar. Detroit, 1998
- 7.62 “Group actions on products of spheres”,
Indiana University Topology Seminar. Bloomington, 1998
- 7.63 “Group actions and group extensions”,
Oklahoma University Topology Seminar. Norman, 1998
- 7.64 “Group actions on k -torus”,
Boğaziçi University Colloquium. İstanbul, 1998
- 7.65 “Group actions on products of spheres”,
Max-Planck-Institut für Mathematik Colloquium. Bonn, 1998
- 7.66 “Group actions and group extensions”,
University of Bonn Topology Seminar. Bonn, 1997
- 7.67 “Group actions and group extensions”,
University of Wisconsin Topology Seminar. Madison, 1996

9. TEACHING

9.1 GRADUATE COURSES

MATH 523	Algebra I
MATH 524	Algebra II
MATH 525	Group Representations
MATH 611	Algebraic Topology I
MATH 618	Topics in Algebraic Topology I
MATH 625	Homological Algebra
MATH 626	Cohomology of Groups

9.2 UNDERGRADUATE COURSES

MATH 101	Calculus I
MATH 102	Calculus II
MATH 111	Intermediate Calculus I
MATH 112	Intermediate Calculus II
MATH 123	Abstract Mathematics I
MATH 124	Abstract Mathematics II
MATH 110	Discrete Mathematics
MATH 132	Discrete and Combinatorial Mathematics
MATH 213	Advanced Calculus I
MATH 214	Advanced Calculus II
MATH 223	Linear Algebra I
MATH 224	Linear Algebra II
MATH 253	Introduction to Number Theory
MATH 227	Introduction to Linear Algebra
MATH 310	Topology
MATH 323	Algebra I
MATH 324	Algebra II

9.3 SENIOR PROJECTS

Koray Karabina	Quadratic forms over \mathbf{F}_2	2003 Spring
Kemal Özbek	Classification of quadratic forms over \mathbf{F}_2	2003 Fall
Kemal Özbek	2-restricted Lie algebras	2004 Spring
Burak Yılmaz	Classification of $\mathbf{F}_2(\mathbf{Z}/2 \times \mathbf{Z}/2)$ -Modules	2004 Fall
Pınar Pekçağlıyan	Matrix Algebra modulo 2	2005 Fall
Pınar Pekçağlıyan	Modular Lie Algebras	2006 Spring

Ömer Faruk Zora	Gödel's incompleteness theorem	2006 Spring
Tunahan Kökmen	Sets closest to ovoids	2006 Fall
İpek Şengül	Burnside ring of a finite group	2006 Fall
Tunahan Kökmen	Sets closest to ovoids	2007 Spring
İpek Tuvay	Burnside ring of a finite group	2007 Spring
Toygar Kerman	Burnside rings	2008 Fall
Ayşe Çankıran	Möbius inversion	2008 Fall
Ayşegül Küçüköz	Group cohomology and group extensions	2009 Spring
Berrin Şentürk	Cohomology length of p -groups	2009 Spring
Doğa Ademoğlu	Fusion in finite groups	2009 Fall
Emrah Turan	Graph coloring	2009 Fall
Faruk Keskin	Cauchy-Frobenius lemma	2010 Spring
Merve Demirel	The unit group of Burnside ring of a dihedral group	2010 Fall
Yasemin Türedi	The unit group of Burnside ring of an abelian group	2010 Fall
Merve Demirel	The unit groups of Burnside rings of dihedral groups	2011 Spring
Yasemin Türedi	The exponential map on the Burnside ring of elementary abelian groups	2011 Spring
Bekir Danişoğlu	Short exact sequences of groups acting on trees	2011 Fall
Tuğba Uzluer	Symmetries of graphs	2011 Fall
Mehmet Kişioğlu	p -Adic analysis and p -adic topology	2012 Spring
Oğuz Gezmiş	The Frattini subgroups of p -groups and Hobby's Theorem	2012 Spring

10. GRADUATE STUDENT SUPERVISION

- 10.1 Elif Doğan, M.Sc., "Homological algebra over categories", 9/2012-Now.
- 10.2 Osman Berat Okutan, M.Sc., "Free actions on products of spheres at high dimensions", 9/2010-6/2012.
- 10.3 Cihan Bahran, M.Sc., "Homological algebra over the orbit category", 9/2010-7/2012.

- 10.4 Ayşegül Küçüköz Tekin, M.Sc., “Cohomology of split group extensions”, 9/2009-5/2012.
- 10.5 Aslı Güçlükan İlhan, Ph.D., “Obstructions for constructing equivariant fibrations”, 9/2006-8/2011.
- 10.6 Fatma Altunbulak Aksu, Ph.D., “Essential cohomology and relative cohomology of finite groups”, 9/2004-8/2010.
- 10.7 Hüseyin Acan, M.Sc., “Topology of lattice of periods of a group action”, 9/2004-8/2006.
- 10.8 Aslı Güçlükan İlhan, M.Sc., “The extension class of a subset complex”, 9/2004-8/2006.
- 10.9 Fatma Altunbulak Aksu, M.Sc., “ L_ζ -modules and a theorem of Jon F. Carlson”, 9/2002-8/2004.

12. SCHOLARLY PUBLICATIONS

12.1 PH.D. DISSERTATION

- 12.1.1 Group actions and group extensions
Advisor: Alejandro Adem
August 1998, University of Wisconsin.

12.5 REVIEWS

Reviewed the following papers for Mathematical Reviews.

- 12.5.1 MR2728692
T. Januszkiewicz, P. H. Kropholler, and I. J. Leary, “Groups possessing extensive hierarchical decompositions”, Bull. Lond. Math. Soc. 42 (2010), 896–904.

- 12.5.2 MR2743628
K. H. Alzubaidy, “Cohomology of finite abelian p -groups and free actions”, *Tamkang J. Math.* 41 (2010), 271–273.
- 12.5.3 MR2465929 (2009m:20084)
M. Hamilton, “Finitary group cohomology and group actions on spheres”, *Proc. Edinb. Math. Soc.* (2) 51 (2008), 651–655.
- 12.5.4 MR2418705 (2009i:20101)
N.J. Kuhn, “The nilpotent filtration and the action of automorphisms on the cohomology of finite p -groups”, *Math. Proc. Cambridge Philos. Soc.* 144 (2008), 575–602.
- 12.5.5 MR2320243 (2008j:20164)
K. Thas, “On the p -modular cohomology algebra of a finite p -group and a theorem of Serre”, *C.R. Math. Acad. Sci. Paris*, 344 (2007), 417–420.
- 12.5.6 MR2228632 (2007i:20013)
K. W. Gruenberg and A. Weiss, “Transfer kernels for finite groups”, *J. Algebra*, 300 (2006), 35–43.
- 12.5.7 MR2201047 (2006m:20024)
M. Linckelmann, “A note on the Schur multiplier of a fusion system”, *J. Algebra* 296 (2006), 402–408.
- 12.5.8 MR2016658 (2004k:20042)
T. Asai, T. Niwasaki, and Y. Takegahara, “Crossed homomorphisms from rank-2 abelian to exceptional p -groups”, *J. Algebra* 270 (2003), 212–237.
- 12.5.9 MR1884615 (2002m:20087)
D.J. Green, I. J. Leary, and B. Schuster, “The subring of group cohomology constructed by permutation representations”, *Proc. Edinb. Math. Soc.* (2) 45 (2002), 241–253.
- 12.5.10 MR1891310 (2002m:53112)

S. Kera, “One class of submanifolds of permutation products of complex manifolds”, *Math. Balkanica (N.S.)* 15 (2001), 275–284.

12.5.11 MR1865540 (2002h:57049)

S. Kera, “On the permutation products of manifolds”, *Beitrge Algebra Geom.* 42 (2001), 547–555.

12.6 ARTICLES IN REFEREED JOURNALS

12.9.1 “Relative group cohomology and the orbit category”, to appear in **Communications in Algebra**. (with S. Pamuk)

12.6.2 “Constructing homologically trivial actions on products of spheres”, **Indiana University Mathematics Journal** 62 (2013), 927-945. (with Ö. Ünlü)

12.9.3 “Free actions on products of spheres at high dimensions”, **Algebraic & Geometric Topology** 13 (2013), 927-945. (with O. B. Okutan)

12.6.4 “Fusion systems and group actions with abelian isotropy subgroups”, **Proceedings of the Edinburgh Mathematical Society** 56 (2013), 873-886. (with Ö. Ünlü)

12.6.5 “Equivariant CW-complexes and the orbit category”, **Commentarii Mathematici Helvetici** 88 (2013), 369-425. (with I. Hambleton and S. Pamuk)

12.6.6 “Bockstein closed 2-group extensions and cohomology of quadratic maps”, **Journal of Algebra** 357 (2012), 34-60. (with J. Pakianathan)

12.6.7 “Fusion systems and constructing free actions on products of spheres”, **Mathematische Zeitschrift** 270 (2012), 939-959. (with Ö. Ünlü)

12.6.8 “Productive elements in group cohomology”, **Homology, Homotopy and Applications** 13 (2011), 381–401.

- 12.6.9 “Acyclic chain complexes over the orbit category”, **Münster Journal of Mathematics** 3 (2010), 145–162. (with I. Hambleton)
- 12.6.10 “Quasilinear actions on products of spheres”, **Bulletin of the London Mathematical Society** 42 (2010), 981–990. (with Ö. Ünlü)
- 12.6.11 “The Euler class of a subset complex”, **The Quarterly Journal of Mathematics** 61 (2010), 43–68. (with A. Güçlükan İlhan)
- 12.6.12 “A Tate cohomology sequence for generalized Burnside rings”, **Journal of Pure and Applied Algebra** 213 (2009), 1306–1315. (with O. Coşkun)
- 12.6.13 “A note on Serre’s theorem in group cohomology”, **Proceedings of the American Mathematical Society** 136 (2008), 2655–2663.
- 12.6.14 “Linear colorings of simplicial complexes and collapsing”, **Journal of Combinatorial Theory, Series A** 114 (2007), 1315–1331. (with Y. Civan)
- 12.6.15 “Generalized Burnside rings and group cohomology”, **Journal of Algebra** 310 (2007), 917–944. (with R. Hartmann)
- 12.6.16 “Borel-Smith functions and the Dade group”, **Journal of Algebra** 311 (2007), 821–839. (with S. Bouc)
- 12.6.17 “Quadratic maps and Bockstein closed group extensions”, **Transactions of the American Mathematical Society** 359 (2007), 6079–6110. (with J. Pakianathan)
- 12.6.18 “A theorem of Jon F. Carlson on filtrations of modules”, **Journal of Pure and Applied Algebra** 208 (2007), 15–28. (with F. Altunbulak)
- 12.6.19 “An induction theorem for the unit groups of Burnside rings of 2-groups”, **Journal of Algebra** 289 (2005), 105–127.

- 12.6.20 “A new notion of rank for finite supersolvable groups and free linear actions on products of spheres”, **Journal of Group Theory** 6 (2003), 347–364. (with L. Barker)
- 12.6.21 “On nilpotent ideals in the cohomology ring of a finite group”, **Topology** 42 (2003), 1155–1183. (with J. Pakianathan)
- 12.6.22 “Set covering and Serre’s theorem on the cohomology algebra of a p -group”, **Journal of Algebra** 245 (2001), 50–67.
- 12.6.23 “On commuting and noncommuting complexes”, **Journal of Algebra** 236 (2001), 396–418. (with J. Pakianathan)
- 12.6.24 “Free p -group actions on products of lens spaces”, **Proceedings of the American Mathematical Society** 129 (2001), 887–898.
- 12.6.25 “Group actions and group extensions”, **Transactions of the American Mathematical Society** 352 (2000), 2689–2700.
- 12.6.26 “On some examples of group actions and group extensions”, **Journal of Group Theory** 2 (1999), 69–79. (with A. Adem)
- 12.9 PAPERS SUBMITTED FOR PUBLICATION
- 12.9.1 On a canonical construction of a singular manifold from a finite group, submitted August 2013. (with M. Herman and J. Pakianathan)
- 12.9.2 Homotopy representations over the orbit category, submitted February 2014. (with I. Hambleton)
- 12.9.3 Group actions on spheres with rank one isotropy, submitted March 2014. (with I. Hambleton)
- 12.9.4 On the basis of the Burnside ring of a fusion system, submitted March 2014. (with M. Gelvin and S.P. Reeh)

12.11 PUBLISHED CONFERENCE ABSTRACTS

- 12.11.1 Fusion systems and constructing free actions on products of spheres (with Ö. Ünlü) Oberwolfach reports, Report No. 32/2010, 67–69.
- 12.11.2 Constructing group actions via orbit categories (with I. Hambleton and S. Pamuk) Oberwolfach reports, Report No. 27/2009, 1497–1500.
- 12.11.1 Bockstein closed central extensions of elementary abelian 2-groups I: Binding operators (with J. Pakianathan) Oberwolfach reports, Report No. 2/2005, 2375–2433.

13. CITATIONS

13.1 TOTAL NUMBER OF CITATIONS: 67

SCI citations by others: 52
Citations in books: 3
Self Citations: 15

14. RESEARCH INTERESTS

- 14.1 Cohomology of groups
- 14.2 Group extensions
- 14.3 Finite group actions on products of spheres
- 14.4 Equivariant vector bundles and fibrations
- 14.5 Orbit category and the Bredon cohomology
- 14.6 Burnside rings
- 14.7 Biset functors
- 14.8 Fusion systems

15. GRANTS

- 15.1 We are currently receiving a TÜBİTAK 1001 grant under the project name “Sonlu grupların kürelerin çarpımlarına pürüzsüz ve serbest etkileri” (Free smooth actions of finite groups on products of spheres) under the project number 110T712. The coordinator of the project is Özgün Ünlü and I am a researcher in this project. We are going to receive a total of 129.860 TL over the period of two years. My old student Aslı Güçlükan is working as a postdoc in this project and Özgün Ünlü’s Ph.D. student Mehmet Akif Erdal is fully supported by this grant. 2010-2013
- 15.2 TÜBİTAK-BDP support for the Bilkent Algebra group: The group consists of L. Barker, S. Sertöz, and E. Yalçın. This grant provided a monthly salary for two of our graduate students as well as an opportunity for them to go abroad for a year using Tübitak support. Fatma Altunbulak Aksu and Olcay Çoşkun used this grant to visit institutions in Germany and U.S.A. This grant also allowed us to use up to 3.000 YTL a year for inviting algebraists to Bilkent University. 2006-2009
- 15.3 TÜBA-Gebip Award: This grant/award provided 15.000 YTL support annually for research activities for a three year period. 2005-2008

16. EDUCATIONAL DEVELOPMENT ACTIVITIES

- 16.1 Member of the undergraduate curriculum committee which was formed to prepare on a proposal to change the Math Department undergraduate curriculum. The proposal was succesful. 2011

- | | | |
|------|---|------|
| 16.2 | Served on the committee which held meetings with the Industrial Engineering Department and with the Department of Economics to decide on the courses needed to complete a Minor in Mathematics. | 2010 |
| 16.3 | Coordinated a discussion on the graduate qualifying exam requirements of the Bilkent University Math Department. The requirements were changed as a result of this discussion. | 2005 |
| 16.4 | Served on the committee which revised the undergraduate program of Bilkent University Math Department. | 2001 |

17. CONTRIBUTIONS TO BILKENT UNIVERSITY

- | | | |
|------|---|--------------|
| 17.1 | I am the academic advisor for graduate students. I am also a member of the graduate student selection committee and the graduate qualifying exam committee. One can say that I am the faculty member who is responsible for our graduate program. As part of this responsibility, I monitor our graduate students and see what their needs are; collect data from them to decide which graduate courses should be opened every semester; ensure that there are enough seminars organized and that there is a rich mathematical environment for them; and hold meetings with our fourth year students to promote our graduate program. | 2005-present |
| 17.2 | I have served as an acting chair multiple times, especially during summer months. | 2000-present |
| 17.3 | I served as an undergraduate advisor in my first five years in Bilkent. | 2000-2005 |
| 17.4 | Member of the University Catalogue Committee | 2004 |

18. CONTRIBUTIONS TO SOCIETY AT LARGE

18.1 HIGH SCHOOL TALKS

18.1.1 Bilkent University Summer School for High School Students 2001

18.1.2 İzmir Fen Lisesi 2000

Preprints of the articles listed in Sections 12.6 and 12.9 can be found at
<http://www.fen.bilkent.edu.tr/~yalcine>