

# ANTALYA ALGEBRA DAYS III

## Talk Schedule

### MAY 16, WEDNESDAY

- 10:00-10:50 Simon Thomas The classification problem for torsion-free abelian groups of finite rank  
*Coffee Break*
- 11:30-12:20 Nuri Çimen Linear growth of primary decompositions of modules and integral closures  
*Lunch Break*
- 14:00-14:50 Mark Ronan Twin Buildings and Kac-Moody groups

#### Session 1

- 15:00-15:30 Vladimir Levchuk Sylow  $p$ -subgroups of Chevalley groups and adjoining questions
- 15:30-16:00 (cont.)
- Coffee Break*
- 16:40-17:10 Ayşe Berkman The şiş kebab theorem for groups of finite Morley rank

#### Session 2

- 15:00-15:30 Derya Keskin Generalizations of lifting modules
- 15:30-16:00 A. Çiğdem Özcan The  $Z^*$  functor for rings whose primitive images are Artinian  
*Coffee Break*
- 16:40-17:10 Laurence Barker Rotations of a 2-sphere, Euclidian motions of the plane, and limits of representations
- 17:10-17:40 Selçuk Demir The category of smooth representations of the isometry groups of homogeneous trees

#### Session 3

- 15:00-15:30 James D. Lewis A mini course on Hodge Conjecture I
- 15:30-16:00 (cont.)
- Coffee Break*
- 16:40-17:10 Meral Tosun Remarks on trees corresponding to surface singularities
- 17:10-17:40 Selma Altınok Splines and fat points

### MAY 17, THURSDAY

- 9:00-9:50 Robert Wisbauer Modules and Comodules
- 10:00-10:50 Idun Reiten Hereditary categories with tilting objects  
*Coffee Break*
- 11:30-12:20 Alexandre Borovik Probabilistic and non-deterministic methods in algebra  
*Lunch Break*
- 14:00-14:50 Bernhard Hanke Poincare duality in P. A. Smith theory

#### Session 1

- 15:00-15:30 Adnan Tercan A note on weak (C11) modules
- 15:30-16:00 Septimiu Crivei On  $\tau$ -complemented modules  
*Coffee Break*
- 16:40-17:10 Mustafa Alkan On summand sum and summand intersection property of a module
- 17:10-17:40 Arshad İmam On the minimal neat injective modules containing a given module as a neat submodule

#### Session 2

- 15:00-15:30 Mahmut Kuzucuoğlu Fixed points of automorphisms in finite and locally finite groups  
*Coffee Break*
- 16:40-17:10 Uğur Madran Modular vector invariants of finite groups
- 17:10-17:40 Müfit Sezer A sharpening of Noether-Fleischmann bound in the invariant theory of finite groups

**Session 3**

15:00-15:30 James D. Lewis A mini course on Hodge Conjecture II

15:30-16:00 (cont.)

*Coffee Break*

16:40-17:10 James D. Lewis A mini course on Hodge Conjecture III

17:10-17:40 (cont.)

**MAY 18, FRIDAY**

9:00-9:50 Vladimir Tolstykh On the problem of completeness of the outer automorphism group of an infinitely generated free group

10:00-10:50 Joel D. Hamkins How tall is the automorphism tower of a group?

*Coffee Break*

11:30-12:20 James D. Lewis Real regulators on Milnor Complexes

*Lunch Break*

13:30 **Trip to Demre and yacht cruise**

**MAY 19, SATURDAY**

9:00-9:50 John Baldwin Model Companions of stable theories with automorphisms

10:00-10:50 Yi-Zhi Huang Conformal-field-theoretic analogues of codes and lattices

*Coffee Break*

11:30-12:20 Stephen D. Smith Quasithin groups and the classification of the finite simple groups

*Lunch Break*

14:00-14:50 Jonathan Pakianathan On commuting and non-commuting complexes

**Session 1**

15:00-15:30 Ergün Yalçın On nilpotent ideals in the cohomology ring of a finite group

15:30-16:00 Andreas Tiefanbach An algebraic and automata theoretical approach to posets

*Coffee Break*

16:40-17:10 Songül Esin Annihilators of ideals in exterior algebras

**Session 2**

15:00-15:30 David Pierce Differential forms in model theory

15:30-16:00 Mahmoud Shalalfeh Geometric Goppa codes on fiber-product of Artin-Schreier and Kummer coverings

*Coffee Break*

16:40-17:10 Yıldırım Ozan On algebraic K-theory of real algebraic varieties with circle action

17:10-17:40 Çetin Ürtiş Automorphic forms, Siegel-Weil Formula, L-functions

**Session 3**

15:00-15:30 Durmuş Bozkurt Cauchy-Toeplitz ve Cauchy-Hankel matrislerinin spektral normları

15:30-16:00 Necati Taşkara Köşegenleştirilebilir interval matrislerin şart sayısı için sınırlar

**MAY 20, SUNDAY**

9:00-9:50 Roger Wiegand Monoids and direct sum decompositions

10:00-10:50 Sylvia Wiegand Building Noetherian and non-Noetherian integral domains

*Coffee Break*

11:30-12:20 Alexander Klyachko Thompson's conjecture and random walks in classical symmetric domains

*Lunch and Farewell*