

Invited speakers

MARIA DE FALCO
NAPOLI, ITALY

ALBERTO ELDOQUE
ZARAGOZA, SPAIN

LEONID A. KURDACHENKO
DNEPROPETROVSK, UKRAINE

JAN OKNINSKI
WARSAW, POLAND

ALEXANDER N. SKIBA
GOMEL, BELARUS

NING SU
GUANGDONG, CHINA

IGOR Y. SUBBOTIN
LOS ANGELES, U.S.A.

THOMAS WEIGEL
MILANO, ITALY

EFIM ZELMANOV
SAN DIEGO, U.S.A.

Scientific Committee

FRANCESCO CATINO
FRANCESCO DE GIOVANNI
CARMELA MUSELLA
MARTIN L. NEWELL
SALVATORE SICILIANO
ERNESTO SPINELLI

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ILARIA COLAZZO
PAOLA STEFANELLI

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DANIELA DELL'ANNA



UNIVERSITÀ
DEL SALENTO



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DEI PASCHI
DI SIENA
BANCA DAL 1472



INdAM-GNSAGA
ISTITUTO NAZIONALE DI ALTA MATEMATICA "F. SEVERI"
GRUPPO NAZIONALE PER LE STRUTTURE ALGEBRICHE,
GEOMETRICHE E LE LORO APPLICAZIONI



Dipartimento di Matematica e Fisica
"Ennio De Giorgi"



DIPARTIMENTO DI MATEMATICA E
APPLICAZIONI "RENATO CACCIOPOLI"

Con il supporto del
Dottorato di Ricerca in Scienze
Matematiche e Informatiche
dell'Università di Napoli
Federico II



Progetto di Ricerca Università di Roma
"La Sapienza": "Identità polinomiali
e metodi combinatori in strutture
algebriche e geometriche"



UNIVERSITÀ
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UNIVERSITÀ DEGLI STUDI
DI NAPOLI FEDERICO II



ADVANCES in Group Theory and Applications



HOTEL LO SCOGLIO
Porto Cesareo (Lecce, ITALY)
JUNE, 16th -19th

<http://poincare.unisalento.it/adv2015/>

The conference is organized by the “Università del Salento” and the “Università degli Studi di Napoli Federico II” and will take place in Porto Cesareo (Lecce, ITALY) from June, 16th to 19th, 2015, at the Hotel Lo Scoglio. The aim of the Conference is to provide an overview of different aspects of Group Theory and its applications. It is addressed both to postgraduate students and senior researchers in all areas of Group Theory.

PROGRAMME

Tuesday, June 16

- > 08:45 Opening by the Scientific and Organizing Committees
- > 09:00-10:00 **E. Zelmanov**, Asymptotic group theory: Golod-Shafarevich Groups
- > 10:00-11:00 **A. Elduque**, Gradings on simple Lie algebras - I
- > 11:00 *Coffee break*
- > 11:30-12:30 **M. De Falco**, Groups with restrictions on infinite conjugacy classes
- > 13:00 *Lunch*
- > 15:00-15:30 **A. Smoktunowicz**, On some questions in noncommutative ring theory and group theory
- > 15:30-16:00 **V.H. Mikaelian**, On a criterion classifying certain varieties generated by wreath products
- > 16:00-16:20 **L. Centrone**, Gelfand-Kirillov dimension of relatively free graded algebras
- > 16:20-16:40 **M. Chaboksavar**, Groups in which every finite subnormal subgroup is normal
- > 16:40-17:00 **I. Castellano**, Stallings' decomposition theorem for totally disconnected locally compact groups
- > 17:00 *Coffee break*
- > 17:30-17:50 **D. La Mattina**, Algebras with polynomial growth of their codimensions

- > 17:50-18:10 **A.V. De Luca**, Groups of infinite rank with normality conditions on subgroups
- > 18:10-18:30 **C. Quadrelli**, Profinite groups with a cyclotomic p -orientation
- > 18:30-18:50 **M. Trombetti**, Uncountable groups with restrictions on subgroups of large cardinality
- > 18:50-19:10 **A. Bors**, On large cycle conditions in finite groups
- > 19:10-19:30 **K. Rodtes**, Orthogonal bases of Brauer symmetry classes of tensors for groups with cyclic support on non-linear Brauer characters
- > 20:00 *Dinner*

Wednesday, June 17

- > 09:00-10:00 **L.A. Kurdachenko**, Restrictions on conjugate classes
- > 10:00-11:00 **J. Okninski**, Submonoids of nilpotent groups and their algebras
- > 11:00 *Coffee break*
- > 11:30-12:30 **I. Subbotin**, The influence of arrangement of subgroups on the group structure
- > 13:00 *Lunch*

Thursday, June 18

- > 09:00-10:00 **L.A. Kurdachenko**, Relationships between upper and lower central series in groups
- > 10:00-11:00 **E. Zelmanov**, Asymptotic group theory: Identities in pro- p -groups
- > 11:00 *Coffee break*
- > 11:30-12:30 **A. Elduque**, Gradings on simple Lie algebras - II
- > 13:00 *Lunch*
- > 15:00-16:00 **Th. Weigel**, A group theoretical version of Hilbert's theorem 90
- > 16:00-17:00 **Ning Su**, Some contributions to the saturated fusion systems
- > 17:00 *Coffee break*
- > 17:30-17:50 **A. Kiefer**, Generators for discrete subgroups of 2-by-2 matrices over rational quaternion algebras

- > 17:50-18:10 **A. Tortora**, Groups with a restriction on normalizers or centralizers
- > 18:10-18:30 **R. Ialenti**, Groups factorized by mutually permutable subgroups
- > 18:30-18:50 **P. Murgel Veloso**, Clean group algebras - some cases
- > 18:50-19:10 **P. Stefanelli**, The Hochschild product of radical braces
- > 19:10-19:30 **I. Colazzo**, The asymmetric product of radical braces
- > 20:30 *Social Dinner*

Friday, June 19

- > 09:00-10:00 **A. Elduque**, Gradings on simple Lie algebras - III
- > 10:00-11:00 **L.A. Kurdachenko**, Classes of Baer and Neumann
- > 11:00 *Coffee break*
- > 11:30-12:30 **E. Zelmanov**, Asymptotic group theory: some open problems on asymptotics of finite groups and algebras
- > 13:00 *Lunch*
- > 15:00-16:00 **A.N. Skiba**, On some arithmetic properties of finite groups
- > 16:00-16:30 **R. La Scala**, Sequences of commutative monomial algebras and the Hilbert series of noncommutative algebras
- > 16:30-17:00 **Xiuyun Guo**, F -norm and the induced automorphisms in finite groups
- > 17:00 *Coffee break*
- > 17:30-17:50 **N. Trabelsi**, On non-perfect minimal non-MrC-groups
- > 17:50-18:10 **M. H. Shahzamanian**, The congruence η^* on semigroups
- > 18:10-18:30 **R. Shwartz**, Generalized commutativity, Hultman numbers and isoclinism of groups
- > 18:30-18:50 **A. Daoui**, On non abelian tensor analogues of 4-Engel groups
- > 18:50-19:10 **C.A. Pallikaros**, Commutative nilpotent algebras and Weil representations
- > 19:10-19:30 **J.C. Mba**, Non-cancellation group computation
- > 20:00 *Dinner*