Review Panel in Cologne, January 15 + 16, 2009
Schedule

Presentations on Thursday, January 15, 2009:

9.00 - 9.15   Bliem, Köln
Polyhedral models of representation

9.15 - 9.30   Brunat, Bochum
Finite reductive groups and arithmetic properties of representations modulo the defining characteristic

9.30 - 9.45   Bürgisser, Paderborn
Geometry and representation theory in computational complexity

9.45 - 10.00   Chen, Bonn
Gabriel-Roiter measure for finite dimensional algebras

10.00 - 10.15   Christandl, München
Representation Theory of the Unitary and Symmetric Group with a view towards the Quantum Marginal Problem

10.15 - 10.30   Ebeling, Hannover
Homological mirror symmetry for Singularities

10.30 - 11.00   coffee break
(in "Dozentenzimmer" in the Main Building (Hauptgebäude) of the University of Cologne)

11.00 - 11.15   Eick, Braunschweig / Müller, Aachen
Lie Algebras and their Representations: Algorithms and Data Libraries

11.15 - 11.30   Farnsteiner, Bielefeld
Combinatorial and geometric aspects of the representation theory of finite group schemes

11.30 - 11.45   Fiebig, Freiburg
Critical level representations of affine Kac-Moody algebras and the geometric Langlands program

11.45 - 12.00   Fuchs, Göttingen
Locally symmetric spaces and cyclic homology

12.00 - 13.00   lunch break
(Room behind "EG Süd" in Zentralmensa (Canteen), Zülpicher Str. 70, 50937 Köln)

13.00 - 13.15   Gramlich, Darmstadt
Representations of unitary forms

13.15 - 13.30   Green, Jena
The Oliver conjectures in the theory of p-local finite groups

13.30 - 13.45   Hartmann, Aachen
Representations of Algebraic Groups in Differential and Difference Galois Theory

13.45 - 14.00   Heinzner, Bochum
Complex geometry of actions and related representations

14.00 - 14.15   Hilgert, Paderborn
Branching laws for 1-parameter families of representations of Lie groups and their asymptotic behavior

14.15 - 14.30   Hille I, Münster
 Actions of Algebraic Groups, Fans and Tilting Modules

14.30 - 14.45   Hille II, Münster
Strongly Exceptional Sequences of Line Bundles on Toric Varieties and Representation Theory

14.45 - 15.15   coffee break
(Dozentenzimmer)

15.15 - 15.30   Hiß I, Aachen
Investigations on Alperin's weight conjecture through Hecke algebras

15.30 - 15.45   Hiß II, Aachen / Malle I, Kaiserslautern
Investigations on the conjectures of McKay and Alperin-McKay

15.45 - 16.00   Holm, Hannover
Cluster-categories, clustertilted algebras and derived equivalences

16.00 - 16.15   Kimmerle, Stuttgart
Representation Rings and Arithmetical Properties of Finite Groups

16.15 - 16.30   Neeb, Darmstadt
Semibounded unitary representations of double extensions of infinite dimensional pre-Hilbert-Lie groups

16.30 - 16.45   Soergel, Freiburg
Koszul duality in representation theory

16.45 - 17.00   Littelmann, Köln
Coordinator's proposal

Presentations on Friday, January 16, 2009

9.00 - 9.15   Knop, Erlangen
Multiplicity Free Actions

9.15 - 9.30   Krause, Paderborn
The telescope conjecture for derived categories arising in representation theory

9.30 - 9.45   Kühlshammer, Jena
Hecke algebras, ring extensions and blocks

9.45 - 10.00   Ladkani, Bonn
Derived categories of sheaves over finite partially ordered sets and their homological properties

10.00 - 10.15   Littelmann, Köln
Geometry and the compression of combinatorial formulas for Macdonald polynomals

10.15 - 10.30   Malle II, Kaiserslautern
Structure and representation of cyclotomic Hecke algebras

10.30 - 11.00   coffee break (Dozentenzimmer)

11.00 - 11.15   Mozgovoy, Wuppertal
Non-commutative crepant resolutions and their DT invariants

11.15 - 11.30   Koenig, Köln
Homological structures at the interface of abstract representation theory and algebraic Lie theory

11.30 - 11.45   Nebe, Aachen
p-adic group rings of finite groups

11.45 - 12.00   Penkov, Bremen
Structure and representation of of infinite- and finite dimensional Lie algebras

12.00 - 13.00 lunch break (Mensa)

13.00 - 13.15   Perling, Bochum
Toric structures of exceptional sequences and representations of algebras

13.15 - 13.30   Plesken, Aachen
Algebraic group techniques for finite(ly presented) groups

13.30 - 13.45   Röhrle I, Bochum
Serre's notion of complete reducibility and geometric invariant theory

13.45 - 14.00   Röhrle II, Bochum
Deformations of singularities and Representation of finite W-algebras

14.00 - 14.15   Schick, Göttingen
Equivariant K-homology for p-adic groups

14.15 - 14.45 coffee break (Dozentenzimmer)

14.45 - 15.00   Schweigert, Hamburg
Representation theoretic tools for equivariant and orbifold conformal field theories

15.00 - 15.15   Stroppel, Bonn
Combinatorics of affine Grassmannians and affine flag varieties

15.15 - 15.30   Wedhorn, Paderborn
Purity of stable pieces in compactifications of semisimple groups