

**Research Workshop of Israel Science Foundation**

**Algebraic Modes of Representation and**

**Nilpotent Orbits: The Canicular days.**

*Celebrating A. Joseph's 75 birthday*

**19-23.07.2017**

**Schedule**

*All the lectures will be held in room 303, Jacobs building*

Wednesday 19

10-10:30 Arrival and coffee

10:30-11:30 D. Panyushev

*Semi-direct products of Lie algebras and covariants*

11:40-12:40 M. McGovern

*Closures of  $O(n)$ -orbits in the flag variety for  $GL(n)$*

12:40-14:30 Lunch

14:30-15:30 L. Fresse

*On the existence of smooth orbital varieties*

15:30-16:00 Tea

16:00-17:00 G. Carnovale

*Normality of quotients of closures of Jordan classes*

17:10-18:10 M. Ignatyev

*Kostant cascades and centrally generated primitive ideals of  $U(\mathfrak{n})$*

*in the orthogonal type*

18:30 Reception. It will be held at Mizpor – the observatory on the topmost floor of the Eshkol Tower

Thursday 20

9:30-10:30 L. Makar-Limanov

*Jacobian conjecture. Some old and new results*

10:30-11:00 Tea

11:00-12:00 A. Joseph

*S-graphs and identities in Demazure Modules*

*In the memory of Bar Sagi*

12:20 –13:20 C. Bowman

*Complex reflection groups of type  $G(l, 1, n)$  and their deformations.*

13:20-15:10 Lunch

15:10 –16:10 I. Entova-Aizenbud

*Deligne categories and complexes of representations of symmetric groups*

16:10-16:40 Tea

16:40-17:40 A. Braun

*On Humphreys "parameterization of blocks" conjecture*

18:30 Light dinner

Friday 21

9:30-10:30 S. Ladkani

*On the class  $\mathcal{P}$  of quivers*

10:40-11:40 E. Poletaeva

*On finite  $W$ -algebras for Lie superalgebras*

11:40-12:10 Tea

12:10 -13:10 C. Hoyt

*A new category of  $\mathfrak{sl}(\infty)$ -modules related to Lie superalgebras*

13:10-14:10 S. Reif

*The Duflo-Serganova functor and character rings of Lie superalgebras*

14:30-16:00 Lunch in Druze village Isufia

Saturday 22

8:00 Trip to Tel Dan

<http://www.parks.org.il/sites/English/ParksAndReserves/teldan/Pages/default.aspx>

Sunday 23

9:30-10:30 F. Fauquant-Millet

*About polynomiality of the Poisson-semicentre for parabolic subalgebras*

10:30 -11:00 Tea

11:00-12:00 S. Zelikson

*On the Demazure Conjecture of Nakshima for string cones*

12:10-13:10 Ya. Fittouhi

*Algebraic and geometrical description of the fibers of the Mumford system*

13:10-14:40 Lunch