

# Representation Theory and Related Topics

UConn (May 11-12, 2015)

\* All talks will be held in MSB 109A. Coffee and refreshments will be in MSB 120.

- May 11 (Monday)

- 8:30 - 9:00 Registration
- 9:00 - 9:50 Eric Sommers (UMass)  
*“The singularities of orbit closures in the nilpotent cone”*
- 9:50 - 10:20 Coffee Break
- 10:20 - 11:10 Paul Hacking (UMass)  
*“Canonical bases for cluster algebras”*
- 11:20 - 12:10 Georgia Benkart (U of Wisconsin–Madison)  
*“Affine nilTemperley-Lieb algebras”*
- 12:10 - 2:00 Lunch
- 2:00 - 2:50 Cristina Ballantine (College of the Holy Cross)  
*“The Kronecker product for symmetric group representations indexed by a hook and a rectangle”*
- 3:00 - 3:50 Cristian Lenart (Albany)  
*“A combinatorial model for Kirillov-Reshetikhin crystals and applications”*
- 3:50 - 4:20 Coffee Break
- 4:20 - 5:10 Jae-Hoon Kwon (Sungkyunkwan)  
*“Crystal bases for the quantum ortho-symplectic Lie superalgebras”*
- 5:20 - 6:10 Anton Zeitlin (Columbia)  
*“Superopers and their properties”*
- 6:45 - 9:00 Banquet (Student Union Room 104)

- May 12 (Tuesday)

- 9:00 - 9:50 Bojko Bakalov (NC State)  
*“Kac–Wakimoto hierarchies and their symmetries”*
- 9:50 - 10:20 Coffee Break
- 10:20 - 11:10 Corina Calinescu (CUNY)  
*“Vertex-algebraic structure of principal subspaces of certain  $A_{2n}^{(2)}$ -modules”*
- 11:20 - 12:10 Antun Milas (Albany)  
*“False modular forms and representation theory”*