

Programme of the conference

– Category \mathcal{O} : geometry and categorification –

CIRM, 10-14 December 2012

- Lectures (3 hours) :

- **T. Arakawa** (RIMS, Kyoto)
Title : Affine category \mathcal{O} and representation theory of W -algebras
- **S. Cautis** (Columbia)
Title : A categorification of the Frenkel-Kac-Segal construction
- **C. Stroppel** (Chicago)
Title : Springer fibers, category \mathcal{O} and Brauer algebras

- One hour talks :

- **I. Cherednik** (Chapel Hill)
Title : Triple-quadruple generalizations of Jones-Kauffman polynomials of torus knots via DAHA
- **C. Dodd** (MIT)
Title : Geometric Structure of Quantization of conical symplectic varieties
- **S. Griffeth** (Talca)
Title : Cherednik algebras and algebraic combinatorics
- **V. Ginzburg** (Chicago)
Title : Hamiltonian reduction and nearby cycles for Cherednik algebras
- **M. Kashiwara** (RIMS, Kyoto)
Title : Categorification of quantum algebras via quiver Hecke algebras
- **P. McNamara** (Stanford)
Title : Representations of KLR algebras
- **R. Rouquier** (UCLA)
Title : Rational Cherednik algebras and Kazhdan-Lusztig theory
- **V. Shende** (MIT)
Title : Torus knots, Hitchin fibers, and filtrations
- **W. Wang** (Virginia)
Title 1 : Category \mathcal{O} for Lie superalgebras: categorification without geometry
Title 2 : Categorification of quantum supergroups
- **G. Williamson** (Bonn)
Title : The Hodge Theory of Soergel bimodules

• Programme :

	Morning			Afternoon	
	9h-10h	10h10-11h10	11h30-12h30	16h30-17h30	18h-19h
Monday	Arakawa 1	Cautis 1	Cherednik	Stroppel 1	Williamson
Tuesday	Arakawa 2	Cautis 2	Rouquier	Ginzburg	Shende
Wednesday	Stroppel 2	Arakawa 3	Wang 1	free	
Thursday	Cautis 3	Stroppel 3	Dodd	McNamara	Kashiwara
Friday	Griffeth	Wang 2			