

TATA INSTITUTE OF FUNDAMENTAL RESEARCH
HOMI BHABHA ROAD, MUMBAI 400 005

SCHOOL OF MATHEMATICS

**Workshop on Representation Theory of
Finite Groups of Lie type: Deligne-Lusztig theory**

December 5–17, 2011

DAY/DATE	9.30 a.m.-10.30 a.m.		11.00 a.m.-12.00 p.m.	12.05 p.m. - 1.05 p.m.		2.30 p.m.-3.30 p.m.		4.00 p.m.-5.00 p.m.
Monday, Dec. 05	D.Prasad (I) ⁺⁺	T	Anupam K. Singh ⁺⁺	Amritanshu Prasad (i) ⁺⁺	L	Maneesh Thakur ⁺⁺	T	Amritanshu Prasad (ii) ⁺
Tuesday, Dec. 06	Anupam Kumar Singh ⁺⁺		Shripad Garge ⁺⁺	Amritanshu Prasad (i) ⁺⁺	U	Ram Murty ⁺⁺		Maneesh Thakur ⁺
Wednesday, Dec. 07	Anupam Kumar Singh ⁺⁺	E	Shripad Garge ⁺⁺	Amritanshu Prasad (i) ⁺⁺	N	Maneesh Thakur ⁺⁺	E	Amritanshu Prasad (ii) ⁺
Thursday, Dec. 08	Anupam Kumar Singh ⁺⁺		Shripad Garge ⁺⁺	Amritanshu Prasad (i) ⁺⁺	C	Maneesh Thakur ⁺⁺		Maneesh Thakur ⁺
Friday, Dec. 09	Anupam Kumar Singh ⁺⁺	A	Shripad Garge ⁺⁺	Amritanshu Prasad (i) ⁺⁺	H	Maneesh Thakur ⁺⁺	A	Maneesh Thakur ⁺
Saturday, Dec. 10	Shripad Garge ⁺⁺		D. Prasad (II) ⁺⁺	Amritanshu Prasad (i) ⁺⁺		Maneesh Thakur ⁺⁺		Amritanshu Prasad (ii) ⁺

- Anupam Kumar Singh : Algebraic groups - an introduction.
Shripad Garge : Rationality questions.
Maneesh Thakur and others : Problem sessions on Algebraic Groups.
Amritanshu Prasad (i) : Green's work on $GL(n, \mathbb{F}_q)$.
Amritanshu Prasad (ii) : Problem sessions.
D. Prasad (I) : Introductory Lecture.
D. Prasad (II) : Summary.
Ram Murty : The Uncertainty Principle and a theorem of Tao.

The lectures will be held in Lecture Room (AG-69) ⁺⁺ , Lecture Room (AG-77) ⁺

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December 5–17, 2011

DAY/DATE	9.30 a.m.-11.30 a.m.		11.30 a.m.-01.00 p.m.	L	2.30 p.m.-4.00 p.m.	
Monday, Dec. 12	K.N. Raghavan ⁺	T	Ryan Vinroot ⁺	U	C.S. Rajan ⁺	T
Tuesday, Dec. 13	K.N. Raghavan ^{@@}	E	N. Thiem ^{@@}	N	C.S. Rajan ^{@@}	E
Wednesday, Dec. 14	K.N. Raghavan ^{@@}	A	Ryan Vinroot ^{@@}	C	D. Prasad ^{@@}	A
Thursday, Dec. 15	D. Prasad ^{@@}		N. Thiem ^{@@}	H	D. Prasad ^{@@}	

K.N. Raghavan : Parabolic induction, Jacquet modules, intertwining algebra, Mackey theory.

C.S. Rajan : l -adic cohomology, a fixed point formula;?? characters of tori, and the L -group formalism.

D. Prasad : Deligne-Lusztig representations.

Ryan Vinroot : Representations of Unitary groups, base change, ennola duality.

N. Thiem : Representations of Unitary groups, base change, ennola duality.

The lectures will be held in Lecture Room (AG-77)⁺ Lecture Theatre (A-66)^{@@}

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**Conference on Representation Theory of
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December 16–17, 2011

DAY/DATE	9.30 a.m.-10.30 a.m.	T	11.00 a.m.-12.00 p.m.	L	2.30 p.m.-3.30 p.m.	T	4.00 p.m. - 5.00 p.m.
Friday, Dec. 16	Jeff Adler ⁺	E	Ryan Vinroot ⁺	UN	Narasimha Sastry ⁺	E	Bhama Srinivasan ⁺
Saturday, Dec. 17	B.Sury ^{@@}	A	N. Thiem ^{@@}	CH	Preena Samuel ^{@@}	A	Bhama Srinivasan ^{@@}

Jeff Adler : Basechange for $U(2, 1)$ for p -adics and D-L theory.

Ryan Vinroot : Klyachko models for unitary groups.

N. Thiem : TBA

Bhama Srinivasan : Modular representations of finite groups of Lie type.

B. Sury : Howlett-Lehrer theory.

Narasimha Sastry : Geometries of groups of type F_4 and E_6 .

Preena Samuel : TBA

The lectures will be held in Lecture Room (AG-77)⁺ Lecture Theatre (A-66)^{@@}