

CONTACT
INFORMATION

Department of Mathematics
Weizmann Institute of Science
P.O. Box 26, Rehovot 76100
Israel

Phone: 972-542028835
E-mail: santosha@weizmann.ac.il
: santoshcu2@gmail.com
Url: www.wisdom.weizmann.ac.il/~santosha

PERSONAL INFO

Nationality India
Date of Birth 26th June, 1982
Marital Status Single
Languages: English, Oriya(mother tongue), Hindi(National Language).

EMPLOYMENT

Post Doctoral Fellow (August 2011-)
Weizmann Institute of Science, Israel

RESEARCH
INTERESTS

Algebraic Groups and Invariant Theory.
Lie Algebras and Representation Theory.

PREVIOUS
EDUCATION

Ph.D., Mathematics (May 2011)
Chennai Mathematical Institute, India
Thesis: Problems related to Invariant theory of Torus and finite groups.

M. Sc. in Mathematics; 2003 - 2005
University of Hyderabad, India
Subject Area : Pure Mathematics

RESEARCH
PUBLICATIONS AND
PREPRINTS

1. *Projective normality of finite group quotients*, with S.S. Kannan and Pranab Sardar, Proc. Amer. Math. Soc. 137(2009), no. 3, 863-867.
2. *Torus quotients of homogeneous spaces - minimal dimensional Schubert varieties admitting semistable points*, with S.S. Kannan, Proc. Indian Acad. of Sci. Math. Sci. 119(2009), no. 4, 469-485.
3. *Projective normality of Weyl group quotients*, with S.S. Kannan, Proc. Indian. Acad. Sci. Math. Sci. 121 (2011), no. 1, pp. 19-26.
4. *Normality, Projective normality and EGZ theorem*, with S.S. Kannan, INTEGERS: The Electronic Journal of Combinatorial Number Theory, Vol 11 (2011).
5. *Invariant theory of Torus and finite groups: A Geometric Approach*, LAP Lambert Academic Publishing, 2011, Germany. ISBN 978-3-8465-0745-2.
6. *Minimal Schubert varieties admitting semi-stable points for exceptional cases*, will appear in Comm. in algebra.
7. *When is the ring of T invariants of the homogeneous coordinate ring of G/B a polynomial algebra - connection with the Coxeter elements*, with S.S. Kannan and N. Chary, will appear in Comm. in algebra.
8. *On some Standard algebras in Modular Invariant Theory*, will appear in Jour. of Algebra and Its Applications.

INVITED TALKS

Invited talks given at Fields Institute, Toronto, Universite Laval, Quebec city, Canada, Hausdroff Institute of Mathematics, Bonn, Germany, Weizmann Institute of Science, Israel, University of Haifa, Israel, Ben Gurion University, Israel, Bar-Ilan University, Israel, IIT Madras, IIT Kanpur.

TEACHING EXPERIENCE

1. Given a short course on Representation theory of Lie algebras at Ramanujan Institute of Advanced Studies in Mathematics, University of Madras, January-March 2009.
2. Tutor in Galois Theory course in the Annual Foundation School, Chennai Mathematical Institute, Chennai, December 2009.
3. Tutor in Modules over PID course in the Annual Foundation School, Chennai Mathematical Institute, Chennai, December 2009.
4. Taught a basic algebra course to High School teachers at Institute of Mathematics and applications, Bhubaneswar, July-August 2008.
5. Taught basic algebra and calculus in the Rural Mathematics Talent search Program funded by NBHM at Institute of Mathematics and applications, Bhubaneswar, December 2008.

HONORS AND FELLOWSHIPS

1. INSPIRE Faculty Award, 2012.
2. NBHM (National Board for Higher Mathematics) Research Fellowship, 2005.
3. CSIR (Council of Scientific and Industrial Research) Research Fellowship, 2005.
4. Qualified GATE (Graduate Aptitude Test in Engineering) with 99.54 percentile, 2005.
5. Gold medal in Honours Mathematics Olympiad, 2003.
6. Andhra Pradesh Mathematics Olympiad, 2004.
7. Regional Mathematics Olympiad, Orissa, 1999.

CONFERENCES AND WORKSHOPS

1. Trimester Program on the Interaction of Representation Theory with Geometry and Combinatorics, HIM, Bonn, April 2011.
2. International Conference on Non-Commutative Rings Combinatorial Representation Theory, Pondicherry University, September 2010.
3. ICM Satellite Conference on Buildings, Finite Geometries and Groups, Indian Statistical Institute (Bangalore), August 2010.
4. International Congress of Mathematicians (ICM), Hyderabad, August 2010.
5. ICM Satellite Conference on Algebraic and Combinatorial Approaches to Representation Theory, Indian Institute of Science (Bangalore), August 2010.
6. Summer School and Workshop on Affine Schubert Calculus, Fields Institute, Toronto, July 2010.
7. Lecture Series on Spectral Sequences and Applications by Prof. S. Ramanan, CMI Chennai, November, 2009.
8. CAAG (Commutative Algebra and Algebraic Geometry) workshop, IIT Madras, July 2009.
9. Workshop on Principal Bundles in Geometry, CMI Chennai, February - March, 2009.
10. RMS/SMF/IMSc - Indo French Conference in Mathematics, December 2008.
11. Classification of Reductive Algebraic Groups - II, ISI Bangalore, May 2008.
12. Workshop on Group Theory : Classification of Reductive Algebraic Groups - I, ISI Bangalore, December 18, 2006 - January 5, 2007.

TECHNICAL AND COMPUTING SKILLS

Algebraic Computation: Singular, CoCoA, McCauley, MAGMA, GAP.
Others: Latex, Linux, HTML.