Curriculum Vitae
Bikramaditya Sahu

Contact

Bikramaditya Sahu
Assistant Professor
Department of Mathematics
National Institute of Technology, Rourkela
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Education

2018   Ph.D
       NISER Bhubaneswar, India
       Advisor : Dr. Binod Kumar Sahoo
       Thesis title : Blocking sets of certain line sets in $PG(3, q)$

2013   Master of Science in Mathematics
       IIT Bombay, Mumbai, India

2010   Bachelor of Science in Mathematics
       Sambalpur University, Odisha, India

Experience

- Assistant professor, Department of Mathematics at National Institute of Technology, Rourkela since 12th June 2020.

- Post-doctoral fellow, Department of Mathematics at Indian Institute of Science, Bangalore from 15th January 2019 to 31st March 2020.

Research Interests

Algebraic Combinatorics, Finite Geometry

List of Publications

- K. L. Patra, B. K. Sahoo and Bikramaditya Sahu, Minimum size blocking sets of certain line sets related to a conic in $PG(2, q)$, *Discrete Mathematics* 339 (2016), 1716 - 1721.

- B. De Bruyn, B. K. Sahoo and Bikramaditya Sahu, Blocking sets of tangent and external lines to a hyperbolic quadric in $PG(3, q)$, *Discrete Mathematics* 341 (2018), 2820 - 2826.

- B. K. Sahoo and Bikramaditya Sahu, Blocking sets of tangent and external lines to a hyperbolic quadric in $PG(3, q)$, q even, *Proc. Indian Acad. Sci. Math. Sci.* 129 (2019), no. 1, 14 pp.

- B. De Bruyn, B. K. Sahoo and Bikramaditya Sahu, Blocking sets of tangent lines to a hyperbolic quadric in $PG(3, 3)$, *Discrete Applied Mathematics*, 266 (2019), 121 - 129.

- B. K. Sahoo and Bikramaditya Sahu, Blocking sets of certain line sets to a hyperbolic quadric in $PG(3, q)$, *Advances in Geometry* 19 (2019), no 4, 477 - 486.

- P. Pradhan and Bikramaditya Sahu, A characterization of the family of secant lines to a hyperbolic quadric in $PG(3, q)$, q odd, *Discrete Mathematics*, accepted.

Talk delivered

- A characterization of the family of secant lines to a hyperbolic in $PG(3, q)$, q odd, Algebra-Combinatorics seminar, October 04, 2019 at Department of Mathematics, IISc Bangalore, India.

- Blocking sets of certain line sets in $PG(2, q)$, In-House Symposium, March 28, 2019 at Department of Mathematics, IISc Bangalore, India.

- Blocking sets of certain line sets in $PG(3, q)$, Ph.D Defence, December 24, 2018 at NISER Bhubaneswar, India.

- Blocking sets of certain line sets in $PG(3, q)$, Pre-Synopsis seminar, April 05, 2018 at NISER Bhubaneswar, India.

- Blocking sets of tangent lines to a hyperbolic quadric in $PG(3, 3)$, December 17, 2017 at the National Conference on Engineering Mathematics, IIT Kharagpur, India.

- Blocking sets of certain line sets to a hyperbolic quadric in $PG(3, q)$, q even, June 27, 2017 at the Second Malta Conference in Graph Theory and Combintorics, University of Malta, Malta.

- Blocking sets in $PG(2, q)$ with respect to a conic, October 17, 2016 at NISER Bhubaneswar, India.

- Minimal blocking sets in $PG(2, q)$, State of the Art seminar, July 30, 2015 at NISER Bhubaneswar, India.

- Witt's Cancellation Theorem of quadratic spaces, April 21, 2014 at NISER Bhubaneswar, India.

- Kunneth Theorem on homology of modules, November 21, 2013 at NISER Bhubaneswar, India.

Awards and Scholarships

- Qualified NBHM Post-Doctoral Fellowship, June 2018 session.

- Qualified the Joint CSIR-UGC National Eligibility Test for Junior Research Fellowship and eligibility for Lectureship, June 2015.

- CSIR-UGC-NET eligibility for Lectureship, June 2014.

- Qualified the Graduate Aptitude Test in Engineering (GATE), 2014.

- Qualified the Graduate Aptitude Test in Engineering (GATE), 2013.

- Qualified Joint Admission Test for M.Sc.(JAM), 2011 for admission in IITs.

- Qualified Joint Admission Test for M.Sc.(JAM), 2010 for admission in IITs.

Conferences/Workshops Attended

- Combinatorial Models in Representation Theory, NCM Workshop, November 04 - 16, 2019, The Institute of Mathematical Sciences, Chennai, India.

- Group Algebras, Representations and Computation, October 14 - 23, 2019, International Centre for Theoretical Sciences, Bangalore, India.

- NASI-TIMC Workshop on Coxeter Groups, December 17 - 19, 2018, Department of Mathematics, IIT Patna, India.

- National Conference on Engineering Mathematics, December 16 - 17, 2017, Department of Mathematics, IIT Kharagpur, India.

- The Second Malta Conference in Graph Theory and Combinatorics, June 26 - 30, 2017, Department of Mathmatics, University of Malta, Malta.

- National Workshop on Matrices and Graphs, January 02 - 07, 2017, Department of Mathematics, Sikkim Manipal Institute of Technology, Sikkim, India.

- Annual Foundation School - Part III, June 20 - July 16, 2016, IISER Thiruvananthapuram, India.

- Annual Foundation School - Part II, May 11 - June 06, 2015, IISER Thiruvananthapuram, India.

- Annual Foundation School - Part I, December 01 - 27, 2014, School of Mathematical Sciences, NISER Bhubaneswar, India.

Research Visit

- Dr. Binod Kumar Sahoo, School of Mathematical Sciences, NISER Bhubaneswar, India during January 06 - 24, 2020.

- Dr. Binod Kumar Sahoo, School of Mathematical Sciences, NISER Bhubaneswar, India during June 10 - 30, 2019.

- Prof. N. S. N. Sastry, Statistics and Mathematics Unit, Indian Statistical Institute, Bangalore Centre, India during May 16 - June 18, 2016.

Teaching Assistant

- Tutor for the Algebra-II course in the Department of Mathematics, IISc Bangalore during January 2020 to March 2020.

- Tutor for the Field Theory course at the AFS-III held at NISER Bhubaneswar during July 01 - 15, 2019.

- Mathematics-I (Undergraduate), Fall- 2016, NISER Bhubaneswar (Teaching Assistant)

- Mathematics-II (Undergraduate), Spring- 2016, NISER Bhubaneswar (Teaching Assisant)

Other responsibilities

- Reviewer of published papers (AMS MatSciNet)

- Computer Lab-in charge, Department of Mathematics, NIT Rourkela (2020-2021)

References

- Dr. Binod Kumar Sahoo
  Associate Professor, School of Mathematical Sciences
  NISER Bhubaneswar, At/P.o. - Jatni, Dist- Khurda
  Odisha-752050, India
  Email - bksahoo@niser.ac.in
  Phone: +91 - 674 - 249 4084

- Prof. Bart De Bruyn
  Professor, Department of Mathematics
  Ghent University, Krijgslaan 281 (S25)
  B-9000 Gent, Belgium
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- Dr. Kamal Lochan Patra
  Reader-F, School of Mathematical Sciences
  NISER Bhubaneswar, At/P.o. - Jatni, Dist- Khurda
  Odisha-752050, India
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- Prof. N. S. N. Sastry
  Visiting Professor, Department of Mathematics
  Indian Institute of Technology, Dharward
  Near High court, PB Road
  Dharwad - 580011, Karnataka, India
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