

Curriculum Vitae

Qunhua LIU

Personal Information:

Surname: LIU
Forename: Qunhua
Place of birth: Henan, P.R.China
Date of birth: 21 November 1981
Nationality: Chinese
Sex: Female
Address: Mathematics Institute, University of Cologne,
Weyertal 86-90, 50931 Cologne, Germany
Email address: qliu@math.uni-koeln.de
Homepage: <http://www.mi.uni-koeln.de/~qliu>

Education:

Sep. 2002–Jul. 2007 PhD student at department of mathematical sciences, Tsinghua University, Beijing
Supervisor: Jie Xiao
Sep. 2003–Sep. 2004 PhD student at department of mathematics and computer science, University of Leicester, England
Asialink scholarship
Supervisor: Steffen König
Sep. 2002–Jul. 2003 PhD student at department of mathematical sciences, Tsinghua University, Beijing
Supervisor: Jie Xiao
Sep. 1998–Jul. 2002 Undergraduate at department of mathematical sciences, Tsinghua University, Beijing

Experience:

Sep. 2008– Scientific assistant of Steffen König at mathematical institute, University of Cologne (On holiday during the period of Oct. 2009-Mar. 2010).
Sep. 2007–Aug. 2008 Research assistant of Steffen König at mathematical institute, University of Cologne, funded by DFG.

Area of Interests:

Representation theory of algebras, tilting theory, triangulated categories; Ringel-Hall algebras, and relation with quantum groups and Kac-Moody Lie algebras; Schur algebras.

Publications and Preprints:

- [1]. Lidia Angeleri Hügel, Steffen König and Qunhua Liu, *On the uniqueness of stratifications of derived module categories*, in preparation.
- [2]. Lidia Angeleri Hügel, Steffen König and Qunhua Liu, *Recollements and tilting objects*, J. Pure Appl. Algebra, to appear. Also arXiv:math.RT/0908.1988.
- [3]. Rujing Dou, Qunhua Liu and Jie Xiao, *The double Ringel-Hall algebra on a hereditary abelian finitary length category*, submitted to Science in China. Also arXiv:math.RT/0908.1666.

- [4]. Qunhua Liu, *On constructing ideals of the Hall algebra of type B*, Alg. Coll., Volume 17 (2010), Number 1, 47-58.
- [5]. Qunhua Liu, *Schur algebras of classical groups II*, Comm. Algebra, to appear.
- [6]. Qunhua Liu, *Schur algebras of classical groups*, J. Algebra 301 (2006), 867-887.

Talks at Conferences/Workshops/Seminars:

- April 7 2009 'On the double Hall algebra of a weighted projective curve', Verona, Italy.
- November 21 2008 'Constructing tilting objects from recollements', Algebra representation theory seminar, Bielefeld, Germany.
- November 14 2008 'Recollements and tilting objects', 12th NWDR workshop, Münster, Germany.
- April 2007 Algebra seminar, Tsinghua University, P.R.China.
- February 2006 Representation theory seminar, University of Cologne, Germany.
- May 2005 International AsiaLink Conference on Algebras and Representation Theory, Beijing Normal University, P.R.China.
- March 2005 Representation theory seminar, EPFL, Lausanne, Switzerland.
- May 2004, September 2004 Representation theory seminar, University of Leicester, United Kingdom.

Further Conferences/Workshops Attended:

- May 3-7 2010 Conference on Interplay between Representation Theory and Geometry, dedicated to the 65th birthdays of Professor Claus Michael Ringel and Professor Kyoji Saito, Tsinghua University, Beijing, P.R.China.
- September 27-October 3 2009 Conference on Perspectives in representation theory, Cologne, Germany.
- July 27-31 2009 Summer school on Geometry of Representations, Cologne, Germany.
- March 1-6 2009 Workshop on Representations and Cohomology, Cologne, Germany.
- June 16-30 2008 Summer school 'Geometric methods in representation theory', Institute Fourier, Grenoble, France.
- May 1-4 2008 Workshop on the Representation Dimension of Artin Algebras, University of Bielefeld, Germany.
- April 15 2008 Bonn-Cologne algebra seminar, Cologne, Germany.
- January 3-9 2008 LieGrits workshop, Mathematical institute, University of Oxford, England.
- October 26 2007 10th NWDR Workshop at University of Duesseldorf, Dusseldorf, Germany.
- October 2006 8th National Workshop on Representation Theory of Algebras at Zhejiang University, Hangzhou, P.R.China.
- September 2006 Workshop on Representations of Quivers, Singularities and Lie Theory at Morningside Center of Mathematics, Chinese Academy of Science, Beijing, P.R.China.
- January 2006 Advanced School and Conference on Representation Theory and Related Topics at the Abdus Salam International Center for Theoretical Physics, Trieste, Italy.
- August 2005 International Summer School on Derived Categories in Representation Theory at Tsinghua University, Beijing, P.R.China.

- April 2005 Workshop on Cellular and Diagram Algebras in Mathematics and Physics at the University of Oxford, Oxford, United Kingdom.
- October 2004 9th National Conference on Algebras, Huangshan, P.R.China.
- June 2004 Representation theory conference at Uppsala (satellite to the European Congress of Mathematics at Stockholm), Sweden.
- March 2004 Workshop on Geometric Methods in Representation Theory at the University of Warwick, Warwick, United Kingdom.
- December 2003 Workshop on Representations of Finite Dimensional Algebras at the University of Warwick, Warwick, United Kingdom.
- October 2002 5th National Workshop on Representation Theory of Algebras at the University of Science and Technology of China, Hefei, P.R.China.