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教师简介

李立斌

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李立斌，男，1964年6月出生，汉族，中共党员。1985年本科毕业于扬州师范学院；1988年毕业于扬州师范学院，获理学硕士学位；2000年毕业于中国科学技术大学，获理学博士学位。1988年7月参加工作。1999任副教授，2005年任教授。现为扬州大学数学科学学院博士生导师。

为扬州大学数学科学学院博士生导师。

一、主要研究方向

- Hopf代数与量子群及其表示理论
- 有限群与Schur代数及其不变量理论
- 分次代数与非交换代数几何
- Lie理论及其变形
- 范畴论及范畴0
- 线性代数与矩阵论，编码与密码，数学教育

二、主讲课程

- 讲授本科生课程：近世代数、线性代数、高等数学、基本代数
- 讲授研究生课程：基本代数学、Lie代数、Hopf代数、Galois理论、量子群、群与代数表示、Kac-Moody李代数、Quiver表示

三、教学科研获奖情况

- 2001年被评为扬州大学青年骨干教师
- 2002、2008年分别评为扬州大学中青年学术带头人
- 2009年度评为扬州大学优秀共产党员
- 基于问题解决的线性代数教学设计，中国高等教育学会教育数学专业委员会2010年学术年会论文一等奖（排名第二）
- 高观点下的初等数学，中国高教学会教育数学专委会2011年学术年会交流论文一等奖

四、发表论文、出版专著（教材）情况

- 教学研究论文
- 3. 基于问题解决的线性代数课程教学设计研究，高等理科教育，2011年第四期
- 2. 线性代数课程习题设计研究，教育与教学研究，2011年第十期
- 1. 浅析用函数思想解线性代数问题，大学数学，2008年5期
- 主要科研文章
- 36. Quantum Weyl polynomials and the center of quantum group $Uq(sl_3)$, Alg. Colloquium, 19(2012), 525-532 (joint with J. Y. Wu and M. L. Zhu).
- 35. Weakly normal rings, Turk. J. Math, 36(2012), 47-57 (joint J. C. Wei).



中学数学教研



专业图书资料



考研辅导



建模比赛



中国数学会



《中学数学教与学》征订



校友风采



重点学科



品牌特色专业

34. Quantum symmetric polynomials and the center of $U_q(\mathfrak{sl}_4)$, Sci. China. Math, 54(2011), 55-64 (joint with J. Y. Wu and J. C. Wei).
33. Poincare Series and an application to Weyl algebras, Acta. Math. Scientia, 31(B)(2011), 459-467(joint with Z. H. Wang).
32. Nilpotent elements and reduced rings, Turk. J. Math, 35(2011), 341-353 (joint with J. C. Wei).
31. Quasitriangular Hopf group coalgebras and Braided monoidal categories, Arab J. Sci Eng, 36(2011), 1063-1070 (joint with H. X. Chen and M. L. Zhu).
30. Coquasitriangular Hopf group coalgebras and Braided monoidal categories, Front. Math. China, 6(2011), 1009-1020 (joint with H. X. Chen and M. L. Zhu).
29. Action of $U_q(\mathfrak{g})$ on its positive part $U^+(\mathfrak{g})$, J. Math. Res and Exp, 31(2011), 665-674(joint with Z. H. Wang).
28. The equitable presentation for the quantum algebra $U_q(\mathfrak{f}(k))$, Quantized algebra and Physics (edited by M. L. Ge, C. M. Bai and N. H. Jing), World Scientific, Vol 8, 187-200 (Joint with Y. Pan)
27. Quasi-normal rings, Comm. Alg, 38(2010), 1855-1868(joint with J.C. Wei).
26. Ore extension of Quasitriangular Hopf algebras, Acta. Math. Sci, 29(2009), 1572-1579 (joint with Z. H. Wang).
25. MC2 rings and WQD rings, Glasg. Math. J, 51(2009), 691-702(joint with J. C. Wei).
24. Strong DS rings, Southeast Asian Bull. Math, 33(2009), 375-390 (joint with J. C. Wei).
23. Stable ideals of the locally finite subalgebra of the quantum group $U_q(\mathfrak{f}(K))$, J. Math. Study, 42(2009), 45--52 (joint with X. J. Zhang)
22. A class of standard bases of polynomial algebras and its applications, J. Math. Res. Exposition, 29(2009), 191--201. (joint with J. C. Dong).
21. The Killing form of a Hopf algebra and its radical. Arab. J. Sci. Eng. Sect. Theme Issues, 33(2008), 553--559. (joint with Z. H. Wang and H. X. Chen).
20. Frobenius property of a cosemisimple Hopf algebra, J. Math. Res. Exposition, 27(2007), 469--473. (joint with J. C. Dong and L. Dai)
19. Comparing Lusztig's algebras and Hall algebras at $v=-1$, J. Algebra, 305(2006), 775-788. (joint with S. Koenig).
18. The center of the quantum group $U_q(\mathfrak{osp}(1,2))$. J. Math. 26(2006), 569-573 (joint with Y. Zhang).
17. Presentation of Quantum generalized Schur algebra, Algebra and its applications, 4(2005), 567-575.
16. Self-dual Hopf quivers, Comm. Algebra, 33(2005), 4505-4516. (joint with H. L. Huang and Y. Ye).
15. Unique decomposition of the ideals in quantum group $U_q(\mathfrak{sl}(2))$, Chinese Ann. Math. Ser. A, (2004), 817-824. (joint with J. H. Sun).
14. Constructing indecomposable representations over quantum group $U_q(\mathfrak{sl}(2))$. Archiv der Mathematik. 80(2003), 578-585.
13. The coradical filtration for double Ringel-Hall Algebras. Comm. Alg. 31(2003), 1545-1559.
12. Graded antisimple primitive radical. Acta Math. Sin. Eng. Ser. 18(2002), 505-512 (joint with J. C. Wei).
11. Colored Ringel-Hall algebras: applications to quantized Borchers superalgebras. Representations of algebras. Proceedings of the Ninth International conference, Beijing, 2000, 308-320, Beijing Normal University

Press, 2002 (joint with P. Zhang)

10. Quantum groups by Ore extension associated with group algebras. J. Math. Res. Exposition. 2 (2002), 54-61 (joint with S. Z. Li).

9. K_1 -groups of finite dimensional path algebras. Acta Math. Sin. (Eng. Ser). 17(2001), 273-276 (joint with X. J. Guo).

8. Irreducible representation of quantum group $V_q(\mathfrak{sl}(2))$, J. Math. 21 (2001), 155-160 (joint with J. C. Wei).

7. The non-negative part of quantum group $U_q(\mathfrak{sl}(2))$. J. Math. Study. 34 (2001), 43-46 (joint with G. G. Fu).

6. Weight property for ideals of $U_q(\mathfrak{sl}(2))$. Comm. Algebra. 29(2001), 4853-4870 (joint with P. Zhang).

5. Quantum comodule approach the solution of the quantum Yang-Baxter equation. Acta. Math. Sci. (English Ed). 20, 201-210 (joint with S. Z. Li).

4. Quantum Yang-Baxter modules and a generalized notion of the Drinfeld quantum double. Representations and quantizations (Shanghai, 1998), 317-328, China. High. Educ. Press and Springer, 2000 (joint with S. Z. Li).

3. Quantum adjoint action for $U_q(\mathfrak{sl}(2))$. Algebra Colloq. 7(2000), 369-379 (joint with P. Zhang).

2. Twisted Hopf algebras, Ringel-Hall algebras and Green's categories. With an appendix by the referee. J. Algebra. 231(2000), 713-743 (joint with P. Zhang).

1. Solution to the Yang-Baxter equation and quantum Yang-Baxter H-comodules. Math. Res. Exposition. 19(1999), 649-653 (joint with J. C. Wei).

五、承担科研、教改项目情况

● 承担的教学研究课题

2. 扬州大学研究生精品课程《基本代数学》负责人, 2010-2013

1. 江苏省高等学校大学生实践创新训练计划项目, 2008. 5-2009. 5, 指导教师

● 主持的学术研究课题

6. 量子超代数的结构、表示与实现, 国家自然科学基金, 2008-2010, 主持人。

5. Lie超代数的量子变形与Drinfeld double的表示, 省自然科学基金, 2002-2005, 主持人。

4. 量子群及其表示理论, 扬州大学新世纪人才工程, 2003-2006, 2009-2011, 主持人。

3. 量子不变理论及其应用, 2009年度省属高校聘请外国短期专家重点项目, 2009. 10-2010. 12, 主持人。

2. Quasi-normal环的若干研究, 江苏省普通高校研究生科研创新计划项目, 2009. 9-2010. 9, 指导教师。

1. 李超代数的量子化代数与Ringel-Hall代数, 国家自然科学基金, 2003-2004, 主持人。

六、学术交流情况

1. 访问情况

● 4. 2012. Visiting Professor, Stuttgart University (invited by Prof. Steffen Koenig).

● 2. 2012-3. 2012. Visiting Professor, Hasselt University (invited by Prof. Yinhuo Zhang).

● 8. 2010. Visiting Professor, Tsukuba University (invited by Prof. Akira Masuoka).

● 5. 2010. Visiting Professor, Shanghai University (invited by Prof. Jietai Yu).

● 4. 2010. Visiting Professor, University of Hong Kong (invited by Prof.

Jietai Yu).

● 3. 2010. Visiting Professor, Nanyang Technological University (invited by Prof. Chaoping Xing).

● 2. 2007–3. 2007. Visiting Professor, Koeln University (invited by Prof. S. Koenig).

● 6. 2004–2. 2005. Post-Doctor(Leverhulme Trust), Leicester University (invited by Prof. S. Koenig).

● 4. 2004. Visiting Professor, Taiwan University(invited by Prof. Mingchang Kang).

● 11. 2000–10. 2001. Research Assistant(VW), Bielefeld University (advisor: Prof. C. M. Ringel).

2. 其它学术活动

● 10. 2011, Talk at Shanghai conference on representation theory of algebras .

● 08. 2010. International Conference on Representations of Algebras, Japan.

● 07. 2010. Talk at Sino-US workshop and summer school on Quantum groups, representation theory and related topics, Shanghai.

● 07. 2010. Workshop and conference on algebras and representation, Fujian

● 05. 2010, International conference on representation theory, Beijing

● 06. 2009, The 12th conference of algebra in China, Hunan, China.

● 07. 2009. Talk at International Workshop on Quantized Algebra and Physics, Nankai University

● 08. 2009. Workshop and conference on algebras and representation, Shanghai Jiaotong University

● 12. 2008. Talk at The AMS Shanghai meeting, Fudan University

● 10. 2008. Talk at The 11th conference of algebra in China, Hunan, China.

● 09. 2007. Workshop on Categorification, Quantization and Clusters, Beijing, China.

● 03. 2007. Lecture in the algebra seminar of University of Koeln, Germany.

● 02. 2007. Lecture in the algebra seminar of University of Koeln, Germany

● 05. 2005. International Asia Link Conference on Algebras and Representations, Beijing Normal University, China.

● 05. 2005. Workshop on Homology, Geometry, and Combinatorics of Representations, Sino-German Science Center, Beijing, China.

● 02. 2005. Lecture in the seminar of group theory at University of Aachen, Germany.

● 02. 2005. Perspectives in mathematics: algebras and representations, Bielefeld, Germany.

● 12. 2004. Lecture in the seminar at University of Oxford, England.

● 07. 2004. Lecture in workshop on noncommutation algebra, University of Warwick, England

● 06. 2004. Talk at Representation theory and its application, University of Uppsala, Sweden.

● 02. 2004. Lecture at the seminar of representation theory at Xiamen University, China.

● 05. 2003. Lecture at the algebra seminar at University of Leeds, England.

● 03. 2002. Lecture at the algebra seminar at Beijing Normal University, China.

● 08. 2001. Summer School: Homological Conjectures for finite-dimensional algebras, Nordfjordeid, Norway.

- 06.2001. Algebraic Groups in Vogue, University of Bielefeld, Germany.
- 05.2001. Lecture at the algebra seminar at University of Aachen, Germany.
- 08.2000. Talk at International Conference on Representations of Algebras , Beijing, China.
- 08.1999. National Conference in Algebra of China, Beijing, China.
- 07.1998. Talk at International Conference on Representation Theory, East China Normal University, China.

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