

Curriculum Vitae of Jiang-Hua Lu

PERSONAL INFORMATION:

Name: Jiang-Hua Lu
Position: Professor, Department of Mathematics
Institution: The University of Hong Kong, Pokfulam Rd. Hong Kong
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EDUCATION:

- (1) Ph.D, Department of Mathematics, University of California at Berkeley, (1985-1990). Dissertation director: Alan Weinstein.
- (2) B.S., Department of Mathematics, Beijing University, P.R. China, (1979-1983).

RESEARCH INTERESTS:

- (1) Symplectic and Poisson geometry;
- (2) Lie theory;
- (3) Cluster algebras.

EMPLOYMENT:

- (1) July 2007 - present: Professor, Department of Mathematics, Univ. of Hong Kong;
- (2) July 2002 - June 30, 2007: Associate Professor, The University of Hong Kong;
- (3) May 1997 - July 2002: Associate Professor (with tenure), Department of Mathematics, University of Arizona, USA;
- (4) July 1994 - May 1997: Assistant Professor, University of Arizona;
- (5) September 1993 - June 1994: Member, Institute for Advanced Study, Princeton;
- (6) September 1990 - June 1993: C. L. E. Moore Instructor, MIT;

VISITING POSITIONS:

- (1) August 1 - December 31, 2008: Centre Interfacultaire Bernoulli, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland;
- (2) August, 2004 and July 2006: University of California, Santa Barbara, USA;
- (3) April 2004 - May 2004: Institut des Hautes Études Scientifiques, France;
- (4) August 2003: Erwin Schoedinger Institute, Vienna, Austria;
- (5) June 2003: Institut des Hautes Études Scientifiques, France;
- (6) March - June 2001: Department of Mathematics, University of Hong Kong;
- (7) July - August, 2000: Institut des Hautes Études Scientifiques, France;
- (8) April 1997 - August 1998: Hong Kong University of Science and Technology;
- (9) July, 1994: Isaac Newton Institute of Mathematics, Cambridge, England;
- (10) May - June, 1994: Institut Henri Poincare, Paris, France.

AWARDS AND GRANTS:

- (1) Hong Kong RGC grant 17306724 (HK\$636,428), 2024 - 2027;
- (2) Hong Kong RGC grant 17306621 (HK\$666,015), 2012 - 2024;
- (3) Hong Kong RGC grant 17307738 (HK\$684,585), 2019 - 2021;
- (4) Hong Kong RGC grant 17304415 (HK\$631972), 2016 - 2019;
- (5) Hong Kong RGC grant 703712 (HK\$1,025,000), 2013 - 2016;
- (6) Hong Kong RGC grant 704310 (HK\$754,055), 2010 - 2013;
- (7) Seed Funding for Basic Research at HKU (HK\$67,000), 2010 - 2012;
- (8) Hong Kong RGC grant 703707 (HK\$570,000), 2007 - 2010;
- (9) Hong Kong RGC grant 703405 (HK\$463,600), 2005 - 2008;
- (10) Seed Funding for Basic Research at HKU (HK\$70,000), 2005 - 2007;
- (11) Hong Kong RGC grant 703304 (HK\$392,000), 2004 - 2007;
- (12) Hong Kong RGC grant 701603 (HK\$486,000), 2003 - 2006;
- (13) Croucher Croucher Foundation Travel Grant (HK\$16550), 2003;
- (14) New Staff Seeding Fund at HKU (HK\$120,000), 2002 - 2004;
- (15) HHY Physical Sciences Fund at HKU (HK\$27,000), 2002 - 2003;
- (16) (USA)NSF grant DMS-0105195 (US\$48,800), 2001 - 2004;
- (17) (USA)NSF grant DMS-0217057 (US\$14,820), 2001, Co-PI for Workshop on Geometry and Topology of Quotients, December 5-8, 2002, Tucson, Arizona;
- (18) (USA)NSF grant DMS-0072551 (US\$75,657), 2000 - 2003;
- (19) (USA)NSF grant DMS-9803624 (US\$67,812), 1998 - 2001;
- (20) (USA)NSF grant DMS-9508920 (US\$66,000), Postdoctoral Research Fellowship, 1995 - 1998;
- (21) Charles B. Morrey graduate student award, University of California at Berkeley, 1987.

COURSES TAUGHT:

- (1) Linear Algebra; Algebra I; Algebra II;
- (2) Calculus; ODE; PDE; Functional Analysis; Real Analysis; Complex Analysis;
- (3) Introduction to topology; Introduction to Differentiable Manifolds; Introduction to Riemannian Symmetric Spaces; Introduction to Symplectic Geometry;

STUDENTS:

- (1) SO, Bing Kwan, MPhil, 2003-2005;
- (2) CHOW, Alan Shek Hei, MPhil, 2003-2005;
- (3) NG, Ka Chun, MPhil, 2005-2008;
- (4) TO, Simon Kai Ming, PhD, 2006-2010;
- (5) LAU, Lai Ngor, MPhil, 2007 -2009;
- (6) CHAN, Kei Yuen, MPhil, 2008 -2010;
- (7) MOUQUIN, Victor, PhD, 2009 - 2013;
- (8) BALAZS, Elek, Mphil, 2010-2012;
- (9) YU, ShiZhuo, PhD, 2013 - 2017;
- (10) MI, Yipeng, PhD, 2013 - 2017;
- (11) PENG, Jun, PhD, 2013 - 2017;
- (12) Antoine de Lefebvre de Saint Germain, PhD, 2018-2022.

UNIVERSITY AND DEPARTMENTAL SERVICES:

- (1) University Selection and Promotion Committee (USPC), September 1, 2021 - present;
- (2) Head, Department of Mathematics, HKU, September 1, 2011 - August 31, 2014;
- (3) Chief examiner, Department of Mathematics, several years until August 2021;
- (4) Departmental Research Postgraduate Committee, various years;
- (5) Faculty Human Resource Committee, HKU;
- (6) Faculty Promotion and Tenure Committee, HKU;
- (7) Promotion and Tenure Committee, University of Arizona;
- (8) Mathematics Colloquium Chair, University of Arizona, 1995-1996;
- (9) Departmental Head Search Committee, University of Arizona, 1995-1996;

PROFESSIONAL SERVICES:

- (1) Editor for *Research in Mathematical Sciences*, *Springer Journal*, 2014 - present
- (2) Editor for *Progress in Mathematics*, July 1, 2013 - present;
- (3) Editor for the *Pacific Journal of Mathematics*, 2002 - September 2023;
- (4) Scientific/Advisory Committee for Poisson 2006 (Tokyo), 2008 (Lausanne), 2010 (Rio de Janeiro), 2012 (Utrecht), 2016 (Zurich), 2022 (Barcelona and Madrid);
- (5) (USA) NSF panel member; Referee for (USA) NSF and European proposals;
- (6) Various PhD thesis committees (Hong Kong, Canada, France, the Netherlands, and Switzerland).

(CO-)ORGANIZATION OF CONFERENCES AND WORKSHOPS:

- (1) Workshop on cluster algebras, representation theory, and algebraic geometry, (co-organizers: B. Keller, Xuhua He, Zheng Hua), November 4-15, 2024, HKU;
- (2) Workshop on cluster algebras, representation theory, and algebraic geometry, (co-organizers: B. Keller, Xuhua He, Zheng Hua), September 4 - 9, 2023, HKU;
- (3) The many interactions of symplectic and Poisson geometry, a conference in honour of Alan Weinstein's 80th birthday, Institut Henri Poincaré, Paris, 19-23 June, 2023;
- (4) Workshop on Differentiable stacks, Poisson geometry, and Related Geometric Structures, Les Diablerets, Switzerland, February 6 - 11, 2022;
- (5) Workshop on Poisson Geometry, Lie Groupoids, and Differentiable Stacks, BIRS, Banff, Canada June 5 - 10, 2022;
- (6) Workshop on Crystal Bases, Cluster Algebras, and Poisson Geometry, HKU, November 29 - December 3, 2018;
- (7) Workshop in Lie Theory and Geometry, March 25 - 26, 2011, March 4 - 7, 2014, The University of Hong Kong;
- (8) Representation of Algebraic Groups, a conference in memory of T. A. Springer, January, 2013, Hong Kong;
- (9) Workshop in Geometry, May 25 - 30, 2006, The Chinese University of Hong Kong;
- (10) Workshop on Geometry and Topology of Quotients, December 5-8, 2002, Tucson, Arizona;
- (11) Conference on Poisson geometry and Lie theory, December 1999, Tucson, Arizona;
- (12) Symplectic geometry conference, MIT, May 1993;

PLENARY ADDRESSES/DISTINGUISHED LECTURES:

- (1) School Colloquium, School of Mathematical Sciences, Zhejiang University, October 12, 2024;
- (2) Institute Lecture, Institute of Mathematics, the Chinese Academy of Sciences, October 9, 2019;
- (3) Plenary address, International Congress of Chinese Mathematicians, June 9 - 14, 2019, Beijing;
- (4) Plenary address, 2017 KWMS International Conference, Pohang, South Korea, June 23 - 24, 2017;
- (5) Pathway Lecture Series in Mathematics, Keio Univ., Japan, November 24 - 26, 2005;
- (6) Plenary address, American Mathematical Society winter meeting, Tucson, 1998.

LECTURE SERIES/MINI-COURSES:

- (1) Workshop on Lie theory and Poisson geometry, three lectures, CIRM, Luminy, France, January 10 - 14, 2022;
- (2) A Series of Mathematical Lectures, IASM, Zhejiang University, November 22 and November 25, 2021;
- (3) Summer school of Poisson 2010, Rio de Janeiro, July 20-23, 2010;
- (4) Troisieme Cycle Romand de Mathématiques, Cours du semestre d'automne 2008 à l'EPFL, September 17 - December 17, 2008;
- (5) 11'th National Summer school of Mathematics, HKUST, July - August 2006;
- (6) One week lectures for the summer program of Institute for Mathematics and Its applications, Minnesota, July 2001;
- (7) Lecture series on symplectic geometry, HKU, March - June, 2001;
- (8) Lecture series at the Workshop on Poisson geometry, Nankai Mathematics Institute, Tianjin, China, June 1995.

INVITED INTERNATIONAL CONFERENCE TALKS:

- (1) Poisson geometry and cluster algebra, Chern Mathematics Institute, Nankai University, January 6-9, 2025;
- (2) Non-associative algebras, representations and applications, Sustech, ShenZhen, November 17-23, 2024;
- (3) BIRS-IASM workshop on Poisson geometry and Artin-Schelter regular algebras, HangZhou, October 14, 2024;
- (4) International Congress of Chinese Mathematicians, Shanghai, January 2-5, 2024;
- (5) Workshop on Lie Groups, Singular Spaces, and Higher Structures, Fields Institute, University of Toronto, Jan. 9-13, 2023;
- (6) Poisson 2022: international conferences on Poisson geometry in mathematics and physics (online), ICMAT, Spain, July 25-29, 2022;
- (7) VIII Workshop on Poisson geometry and related topics (online), Rio de Janeiro, September 13 - 14, 2021.
- (8) Global Poisson Webinar, University of Geneva, September 24, 2020.
- (9) Workshop on Poisson geometry, Stokes Automorphisms and cluster algebras, December 10 - 12, 2019, Beijing University

- (10) Joint AMS-CMS meeting, special session on non-commutative geometry and related topics, Fudan University, Shanghai, June 13, 2018;
- (11) Workshop on symplectic and Poisson geometry, Suzhou University, June 10, 2018;
- (12) Representation Theory, Mathematical Physics and Integrable Systems, CIRM, Luminy, France, June 4 - 8, 2018;
- (13) GAP XVI, Lie theory and applications to mathematical physics, Timisoara, Romania, May 29 - June 2, 2018;
- (14) Lie Groups in Mathematics and Physics, Les Diablerets, Switzerland, Aug. 27 - Sept. 1, 2017;
- (15) Plenary talk, 2017 KWMS International Conference, Pohang, South Korea, June 23 - 24, 2017;
- (16) Joint Notre Dame/La Sapienza workshop on Lie theory and cluster algebras, Rome, October 17 - 21, 2016;
- (17) QQQ2016 (Quantum algebras, quantum integrable models, and quantum computation), Kristineberg, Sweden, July 11- 16, 2016;
- (18) Poisson geometry and mathematical physics, Chern Institute of Mathematics, Nankai University, Tianjin, Jan. 4-8, 2016;
- (19) Conference on Geometric Analysis in honor of the 65th birthday of Tudor Ratiu, June 12 - 13, 2015, EPFL, Lausanne, Switzerland;
- (20) Poisson 2014: International conference on Poisson geometry in mathematics and physics, August 3 - 8, 2014; Urbana-Champaign, Illinois, USA;
- (21) Non-commutative geometry and mathematical physics, Scalea, Italy, June 16 - 20, 2014;
- (22) Alan Weinstein Symposium, IHP, Paris, July 18 - 20, 2013;
- (23) Higher structures in China, III, Jilin University, August 13 - 18, 2012;
- (24) Poisson 2012: International conference on Poisson geometry in mathematics and physics, July 30 - August 3, 2012, Utrecht, the Netherlands;
- (25) International workshop on representation theory and harmonic analysis, Chern Institute of Mathematics, Nankai University, Tianjin, China, June 5-11, 2011.
- (26) The International Congress of Chinese Mathematicians, Beijing, Dec. 17-22, 2010;
- (27) Atlas on Lie groups workshop, University of Utah, July 19, 2010;
- (28) Symplectic and Poisson Geometry in interaction with Algebra, Analysis and Topology in honor of Alan Weinstein's retirement, MSRI, Berkeley, May 4-7, 2010.
- (29) Graduate Colloquium, Mathematics Institute, Gottingen, Germany, July 16, 2009;
- (30) Workshop on Transverse Poisson Structures and Poisson Singularities, EPFL, Switzerland, October 9-10, 2008;
- (31) Workshop on Moment maps, EPFL, Switzerland, August 4-8, 2008
- (32) Poisson 2008, International conference on Poisson geometry in mathematics and physics, July 4-11, 2008, EPFL, Lausanne, Switzerland;
- (33) The International Congress of Chinese Mathematicians, Zhejiang University, Hang Zhou, Dec. 17-22, 2007;
- (34) The Fourth Pacific Rim Conference on Mathematics, City University of Hong Kong, Dec. 7-11, 2007;
- (35) Geometric Aspects of Analysis and Mechanics: a conference in honor of the 65th birthday of Hans Duistermaat, August 20-24, 2007, Utrecht, the Netherlands.
- (36) Poisson 2006: International conference on Poisson geometry in mathematics and physics, June 5 - 9, 2006, Tokyo, Japan;

- (37) Poisson 2004: International conference on Poisson geometry in mathematics and physics, July 4 - July 23, 2005, ICTP, Trieste, Italy;
- (38) Symposium Lie Groups: from Topology to Arithmetic in memory of Armand Borel, Geneva and Zurich, Switzerland, June 29 - July 4, 2005;
- (39) The Third International Congress of Chinese Mathematicians, Hong Kong, December 17 - 22, 2004.
- (40) International Symposium on Representation Theory and Harmonic Analysis, Urumqi, Xinjiang, China, August 2-8, 2004;
- (41) Hong Kong Mathematical Society, April 17, 2004;
- (42) Workshop on moment maps, Erwin Schoedinger Institute, Vienna, Austria, August 2003;
- (43) International EuroSchool and EuroConference PQR 2003, Brussels, Belgium, June 19, 2003;
- (44) Rencontres Mathématiques de Glanon, Glanon, France, July 1, 2003;
- (45) Hong Kong Geometry Colloquium, October 2002;
- (46) Poisson 2002, International conference on Poisson geometry in mathematics and physics, Lisbon, Portugal, September 2002;
- (47) The Second International Congress of Chinese Mathematicians, Taiwan, December 2001;
- (48) International conference on orbits, crystals, and representation theory, IHP, Paris, May 22-25, 2000;
- (49) Colloquium, Penn State University, April, 2000;
- (50) PSU Mini geometry conference, Penn State University, April 7-8, 2000;
- (51) Colloquium, University of California at Santa Cruz, November 1999;
- (52) Mimi symplectic geometry conference at MIT, October 1999;
- (53) Groupoidfest, Arizona State University, December, 1998;
- (54) AMS invited plenary address, Tucson, November, 1998;
- (55) Workshop on Poisson geometry, Banach Center, Warsaw, August 1998;
- (56) Symplectic geometry conference at MIT, April 1997, May 1995, October 1999;
- (57) Colloquium, University of California at Berkeley, January 1997;
- (58) Colloquium, California Institute of Technology, May 1996;
- (59) Special session of AMS conference, Columbia, Missouri, November, 1996;
- (60) Colloquium on geometric quantization (organizers: M. Vergne, M. Duflo and L. Jeffrey), Luminy, France, July 1996;
- (61) Workshop on quantum groups and quantum spaces, Banach Center, Warsaw, Poland, November 1995;
- (62) Joint American Mathematical Society meetings, San Antonio, January 1993;
- (63) Association for Women in Mathematics Symposium on the Future of Women in Mathematics, San Francisco, January 1991.

SEMINAR/COLOQUIUM TALKS:

- (1) Colloquium (online), Institute of Mathematics, Jilin University, March 18, 2022;
- (2) Department of Mathematics, Sichuan University (online), March 10, 2022;
- (3) Joint Topology/Lie group seminar, Cornell University, September 5, 2017;
- (4) IMS geometry seminar, Chinese University of Hong Kong, October 28, 2009;

- (5) Seminar on fundamental interactions, University of Feiburg, Germany, December 12, 2008;
- (6) Séminaire "Algèbre Géométrie Algébrique Topologie Algébrique", Université Montpellier 2, Montpellier, France, December 11, 2008;
- (7) Séminaire Groupes de Lie et espaces des modules, University of Geneva, Geneva, Switzerland, September 30, 2008;
- (8) Department of Mathematics, Beijing University, July 4, 2007.
- (9) Department of Mathematics, University of Hawaii, December 28, 2005;
- (10) Geometry seminar, University of Californian at Santa Barbara, August 24, 2004;
- (11) Quantum group seminar, Ecole Normale Supérieure, Paris, France, May 2, 2004;
- (12) Mathematical Physics Seminar, University of Lyon, France, May 7, 2004;
- (13) Symplectic geometry seminar, University of California, Berkeley, March 8, 2004;
- (14) Pure mathematics seminar, ZhongShan University, GuangZhou, China, 2003;
- (15) Lie theory seminar, The Hong Kong University of Science and Technology, February 13 and 15, 2001;
- (16) Geometry seminar, University of Lyon, France, September, 2000;
- (17) Physics inspired mathematics seminar, Univ. of North Carolina, April, 2000;
- (18) Special seminar, University of California, Berkeley, November 2000;
- (19) Special seminar, Ecole Polytechnique, France, June 1998;
- (20) Symplectic geometry seminar, UC Berkeley, April 1997, November 1999;
- (21) Symplectic geometry seminar, MIT, February 1997, 1990 - 1993;
- (22) Geometry seminar, University of Arizona, August 1994 - 1999;
- (23) Topology seminar, Cornell University, March 1996;
- (24) Geometry Seminar, Pennsylvania State University, March 1996;
- (25) Colloquium, Hong Kong University of Science and Technology, February 1996;
- (26) Berkeley-Stanford-Davis-Santa Cruz symplectic geometry seminar, February 1995;
- (27) Integrable system seminar, University of Strassburg, France, June 1994;
- (28) Symplectic geometry seminar, Institut Henri Poincare, Paris, France, June 1994;
- (29) Geometry seminar, University of Maryland, April 1994;
- (30) Member seminar, Institute for Advanced Study, Princeton, March 1994;
- (31) Geometry seminar, Tokyo Metropolitan University, Tokyo, Japan, January 1994;
- (32) Department of Mathematics, Keio University, Tokyo, Japan, January 1994;
- (33) Algebra seminar, Rutgers University, November 1993;
- (34) Colloquium, University of Maryland, April 1993;
- (35) Colloquium, University of Oregon, January 1993.
- (36) Infinite dimensional Lie algebra seminar, MIT, 1992;
- (37) Lie group seminar, MIT, 1991;
- (38) Symplectic geometry seminar, University of California, Berkeley, 1987-1990.

Preprints:

- (1) A. de Saint Germain and J.-H. Lu, Fixed points of DT transformations, cluster exponents and degrees of Weyl groups, arXiv:2503.11391;
- (2) J.-H. Lu and Mykola Matviichuk, Deformations of T-log-symplectic log-canonical Poisson structures and symmetric Poisson CGL extensions, arXiv:2503.05644;
- (3) Y. P. Li, Y. Li, and J.-H. Lu, Polynomial integrable systems from cluster structures, arXiv:2411.18904;

- (4) P. Cao, A. de Saint Germain, and J.-H. Lu, Tropical friezes and cluster-additive functions via Fock-Goncharov duality and a conjecture of Ringel, arXiv:2405.10330;
- (5) A. de Saint Germain, M. Huang, and J.-H. Lu, Friezes of cluster algebras of geometric type, arXiv:2309.00906;

PUBLICATION:

- (1) H. Bursztyn, D. Iglesias-Ponte, and J.-H. Lu, Dirac geometry and integration of Poisson homogeneous spaces, *J. Differential Geom.* **126** (3) (2024), 939-1000;
- (2) J.-H. Lu, V. Mouquin, and S. Yu, Configuration Poisson Groupoids of Flags, *Int. Math. Res. Not.* **2022**, <https://doi.org/10.1093/imrn/rnac321>;
- (3) B. Elek and J.-H. Lu, Bott-Samelson varieties and Poisson Ore extensions, *Int. Math. Res. Not.* **2021** (14), 10745 - 10797; <https://doi.org/10.1093/imrn/rnz127>.
- (4) J.-H. Lu and S. Yu, Bott-Samelson atlases, total positivity, and Poisson structures on some homogeneous spaces, *Selecta Math. New Series.* **26** (70), 2020. <https://doi.org/10.1007/s00029-020-00595-1>.
- (5) J.-H. Lu and Y. P. Mi, Generalized Bruhat cells and completeness of Hamiltonian flows of Kogan-Zelevinsky integrable systems, *Lie groups, Geometry, and Representation Theory*, Kostant memorial volume, V. Kac, V. Papov Eds., *Progress in Mathematics*, **326** (2018), 315 - 365.
- (6) J.-H. Lu and V. Mouquin, Double Bruhat cells and symplectic groupoids, *Trans. groups*, **23**(3), 765-800 (2018). <https://doi.org/10.1007/s00031-017-9437-6>.
- (7) Lu J H, Yu S Z. On a class of Poisson structures from Lie theory (in Chinese). *Sci. Sinica Math*, **47** (2017), 1 - 12, doi: 10.1360/N012017-00157;
- (8) J.-H. Lu and V. Mouquin, On the T-leaves of some Poisson structures related to products of flag varieties, *Adv. Math.* **306**, 1209 - 1261 (2017);
- (9) J.-H. Lu and V. Mouquin, Mixed product Poisson structures associated to Poisson Lie groups and Lie bialgebras, *IMRN*, 1-58 (2016);
- (10) J.-H. Lu, On the T-leaves and the ranks of a Poisson structure on twisted conjugacy classes, *Indagationes Mathematicae*, **25** (5), 1102 - 1121 (2014);
- (11) J.-H. Lu, On a dimension formula for twisted spherical conjugacy classes in semisimple algebraic groups, *Math. Z.* **269** (3-4), 1181-1188 (2011);
- (12) X. He and J.-H. Lu, On intersections of certain partitions of a group compactification, *IMRN*, **2011**(11), 2534 - 2564 (2011).
- (13) K. Y. Chan, J.-H. Lu, and K. M. To, On intersections of conjugacy classes and Bruhat cells, *Trans. Groups*, **15**(2), 243 - 260 (2010).
- (14) J.-H. Lu and M. Yakimov, Group orbits and regular partitions of Poisson manifolds, *Comm. Math. Phys.*, **283**(3), 729 - 748 (2008).
- (15) J.-H. Lu, A note on Poisson homogeneous spaces, *Poisson geometry in mathematics and physics*, Contemporary Mathematics, Vol 450, 173 - 198 (2008).
- (16) Evens, S., Lu, J.-H., Poisson geometry of the Grothendieck resolution of a complex semisimple group, *Moscow Mathematical Journal* **7** (4) (special volume in honor of V. Ginzburg's 50'th birthday), 613 - 642 (2007).
- (17) J.-H. Lu and M. Yakimov, Partitions of the wonderful group compactification, *Trans. Groups* **12** (2007), no. 4, 695-723.
- (18) Evens, S., Lu, J.-H., On the variety of Lagrangian subalgebras, II, *Ann. Scient. Ecol. Norm. Sup.*, **39** (2), 347 - 379, 2006.

- (19) P. Foth and J.-H. Lu, Poisson structures on complex flag manifolds associated with real forms, *Trans. AMS*, **358** (4), 1705 - 1714, 2006, (electronically published on September 22, 2005).
- (20) J.-H. Lu and M. Yakimov, On a class of double cosets in reductive algebraic groups, *IMRN*, **13**, 761-797, 2005;
- (21) S. Evens and J.-H. Lu, Thompson's conjecture for real semi-simple Lie groups, *Progress in Mathematics*, Vol. 232 (2005), Marsden, Jerrold E.; Ratiu, Tudor S. (Eds.), 121 - 147.
- (22) L. Ji and J.-H. Lu, New realizations of the maximal Satake compactification of Riemannian symmetric spaces, *Lett. Math. Phys.* **69** (1-3), 139 - 145, 2004;
- (23) P. Foth and J.-H. Lu, A Poisson structure on compact symmetric spaces, *Comm. Math. Phys.*, **251** (3), 557 - 566, 2004;
- (24) Evens, S., Lu, J.-H., On the variety of Lagrangian subalgebras, I, *Ann. Ecol. Norm. Sup.* (2001), 631 - 668;
- (25) Lu, J.-H., Yan M., Zhu, Y.-C., Hopf algebras with positive bases, *J. of Algebra* **237** (2) (2001), 421-445;
- (26) Lu, J.-H., Classical dynamical r-matrices and homogeneous Poisson structures on G/H and K/T , *Comm. Math. Phys.* **212** (2000), 337 - 370;
- (27) Lu, J.-H., Yan M., Zhu, Y.-C., Quasi-triangular structures on Hopf algebras with positive bases, *New trends in Hopf algebra theory*, Proceedings of Colloquium on quantum groups and Hopf algebras, La Falda, Argentina, August 1999. Edited by N. Andruskiewitsch, et. al. (1999), 339 - 356.
- (28) Lu, J.-H., Yan M., Zhu, Y.-C., On the set-theoretical Yang-Baxter equation, *Duke Math. J.* **104** No. 1 (2000), 1-18;
- (29) Lu, J.-H., Coordinates on Schubert cells, Kostant's harmonic forms, and the Bruhat Poisson structure on G/B , *Trans. Groups*, **4** No.4 (1999), 355 - 374;
- (30) Evens, S., Lu, J.-H., Weinstein, A., Transverse measures, the modular class, and a cohomology pairing for Lie algebroids, *Quarterly J. of Math.*, **50** (1999), 417 - 436;
- (31) Evens, S., Lu, J.-H., Poisson harmonic forms, Kostant harmonic forms, and the S^1 -equivariant cohomology of K/T , *Adv. Math.*, **142** (1999), 171 - 220;
- (32) Lu, J.-H., Poisson homogeneous spaces and Lie algebroids associated to Poisson actions, *Duke Math. J.*, **86** No. 2 (1997), 261 - 304;
- (33) Lu, J.-H., 'Hopf algebroids and quantum groupoids, *Inter. J. Math.*, **7** No. 1 (1996), 47 - 70;
- (34) Lu, J.-H., On the Heisenberg double and the Drinfeld double of a Hopf algebra, *Duke Math. J.*, **74** No. 3 (1994), 763 - 776;
- (35) Lu, J.-H., Moment maps at the quantum level, *Comm. Math. Phys.* **157** (1993), 389 - 404;
- (36) Ginzburg, V., Lu, J.-H., Poisson cohomology of Morita-equivalent Poisson manifolds, *IMRN*, No.10 (1992), 199 - 205;
- (37) Lu, J.-H., Ratiu, T., On the convexity theorem of Kostant, *J. AMS* **4** No. 2 (1991), 349 - 363;
- (38) Lu, J.-H., Weinstein, A., Appendix to "quantization of the Poisson $SU(2)$ and its Poisson homogeneous space-the 2-sphere" by A. Sheu, *Comm. Math. Phys.*, **135** (1991), 217 - 232;

- (39) Dazord, P., Lu, J.-H., Sondaz, D., Weinstein, A., Affinoides de Poisson, *Comptes Rendus de Seances, Academie de Sciences (Paris), Serie I. Mathematique*, **312** (1991), 523 - 527
- (40) Lu, J.-H., Momentum mappings and reductions of Poisson Lie group actions, *Proceedings of the Seminaire Sud-Rhodanien de Geometrie á Berkeley, 1989, 1991* Springer-MSRI series, 209 - 226;
- (41) Lu, J.-H., Weinstein, A. Groupoides symplectiques doubles des groupes de Lie-Poisson, *Comptes Rendus de Seances, Academie de Sciences (Paris), Serie I. Mathematique*, **309** (1989), 951 - 954;
- (42) Lu, J.-H., Weinstein, A., Poisson Lie groups, dressing transformations, and Bruhat decompositions, *J. Diff. Geom.* **31** (1989), 501 - 526;
- (43) Lu, J.-H., A note on a theorem of Stanton-Weinstein on the L^4 -norms of spherical harmonics, *Math. Proc. of the Cambridge Philosophical Society* **102** (1987), 561 - 563.