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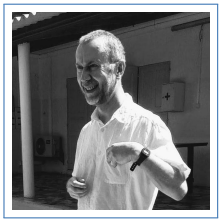

Education

1986 **PhD**, *Imperial College, London*, Theoretical Physics.
1983 **BA**, *Trinity College, Cambridge*, 1st Class Hons, Physics and Theoretical Physics.

PhD Thesis

Title *Gauge Properties and Convexity of the Effective Potential*
Supervisor Dr. H. F. Jones

Employment

1999-present Professor of Mathematics, Heriot-Watt University
2002-2006 Head of Department, Mathematics, Heriot-Watt University
1990-1999 Lecturer, Senior Lecturer, Reader, Mathematics, Heriot-Watt University
1989-1990 Temporary Lecturer, Physics, Lancaster University

Postdoctoral/Fellowship Experience

1999 SOEID/RSE fellowship, Heriot-Watt
1993-1994 Marie Curie fellowship, LPTHE, Université Paris XI, France
1989-1990 DAAD funded RA, Free University of Berlin, West Berlin
1987-1989 SERC/NATO postdoctoral fellowship, Caltech, Pasadena, USA
1986-1987 Royal Society European Exchange Fellowship, LPTHE, Université Paris XI, France

Teaching Activities

Undergraduate

1990-present 1st to 4th year undergraduate courses, mathematics and service
1990-present Undergraduate project supervision

MSc

1992-present MSc project supervision

Supervision of PhD Students

1998-2001 M. Stathakopoulos
1994-1997 R. Malmini

Outreach

2017-19	AIMS-Senegal, Quantum Mechanics and Quantum Computing course
2015	AIMS-SA, Quantum Mechanics and Quantum Computing course
2013-16	AIMS-Ghana, Introductory course on computing and LaTeX
1990-present	Mathematics Masterclasses (schools lectures), Lothian and Aberdeen regions

University Awards

2010	University Teaching Oscar
2019	University Teaching Excellence Award

Professional Activities

2017-2020	External Examiner, Theoretical Physics, Honours Undergraduate and MSc, Maynooth University
2012-2016	External Examiner, Mathematical Physics, Honours Undergraduate and MSc, University of Nottingham
	Fellow of the Institute of Physics
	Member of the Higher Education Academy

Nationality

British

Languages

English	Native
French	Working knowledge
German	Basic

Computer Languages

C	Competent
Fortran	Competent
Maple	Competent
Mathematica	Basic
Matlab	Basic
Python	Beginner

Grants Awarded

EPSRC grants

2018-2021 EP/R009465/1, Co-Investigator, (PI: Robert Weston, COI: A. Doikou), "Baxter Relations for Open Integrable Quantum Spin Chains", £342,412

EC grants

2005-2009 Participant, Framework 6 network grant "ENRAGE - European Network on Random Geometries": €211,000 to Heriot-Watt

2005-2007 Host, Marie Curie individual fellowship for Dr Martin Weigel: €144,000

2000-2003 Coordinator, Improving Human Potential network grant "Discrete Random Geometries": €1,492,000 distributed over 12 EC sites

1993-1996 Coordinator, Human Capital and Mobility network grant "Analytical and Numerical Investigation of Random Geometries": €300,000

1993-1994 Fellowship, Human Capital and Mobility, LPTHE, Universite Paris Sud, Orsay, France: £35,000

ESF grants

2000-2003 Coordinator, ESF network grant "Geometry and Disorder: From Membranes to Quantum Gravity": 500,000FF

Nato grants

1995-1996 NATO grant CRG 951253 for collaborative research with Dr. Clive Baillie on "Quantum Gravity and Disordered Systems": £2500

1991-1994 NATO grant CRG 910091 for collaborative research with Dr. Clive Baillie on "Random surface models in Physics": £5800

British Council grants

2000 Enterprise Ireland Collaborative Research Grant with Prof. R. Kenna, Trinity College Dublin: £1000

2000 Enterprise Ireland Collaborative Research Grant with Dr B. Dolan, University of Ireland, Maynooth: £1000

1999-2001 Collaborative research with Prof. Domenec Espriu: £2000

1998-9 Collaborative Research Grant with Profs. P. Bialas and Z. Burda, Krakow: £2000

1998-9 ARC Collaborative Research Grant with Prof W. Janke, Leipzig: £2000

1998 Travel grant to visit Prof. R. Loll, Albert Einstein Insitute, Potsdam: £580

1998 Travel grant to visit Prof J. Smit, University of Amsterdam: £600

1997 Travel grant to visit Prof. G. Savvidy, NCSR "Demokritos" Athens: £600

1995 Travel grant to visit Prof. H. Markum, TU Vienna: £300

1993-1994 Collaborative research with Prof. Enzo Marinari: 5 million Lira

1993-1994 Collaborative research with Prof A. Krzywicki: £800

1992-1994 Collaborative research with Prof. Domenec Espriu: £2800

1992-1994 Collaborative research with Prof. Wolfhard Janke: £1000

1991-1992 Collaborative research with Prof. Jan Ambjorn: £2000

Royal Society grants

2005 Research visit Dr Brian Dolan: £2100

2001 Travel grant: £300

2000 Research grant for computing equipment: £6085

1997 Travel grant: £468

1996 Travel grant: £625

1996 Research grant for computing equipment: £9994

1995 Research visit to Japan: £2125

1993 Research visit to Australia: £1700

1992 Research grant for computing equipment: £6915

1992 Travel grant: £500

1991 Travel grant: £800

Leverhulme Trust grants

1998 Research fellowship: £8372

Royal Society of Edinburgh grants

1999 SOEID/RSE support research fellowship: £17,000

Serc grants

1992-1994 SERC grants GR/H54904,GR/J21941 of 230+250 hours cpu time on Cray X/YMP at Rutherford Lab

1991-1994 Participant in GR/J03466 (Principal Investigator Prof. J. M. Ball)

1994 Award of "pump-priming" time on Edinburgh Cray T3D

Other grants

2015 James-Clerk-Maxwell-AIMS fund: £3000

2014 James-Clerk-Maxwell-AIMS fund: £5000

2013 James-Clerk-Maxwell-AIMS fund: £5000

2012 Carnegie Summer Studentship grant: £1000

2011 Carnegie Summer Studentship grant: £840

1997 EMS centenary fund for visit by Prof. M. Bowick: £300

Journal Publications

[1] D. A. Johnston and R. P. K. C. M. Ranasinghe, (Four) Dual Plaquette 3D Ising Models, Entropy 22(6), 633 (2020)

[2] D. A. Johnston, Lattice SUSY for the DiSSEP at $\lambda^2 = 1$ (and $\lambda^2 = -3$), J. Phys. Commun. 3, 105011 (2019)

[3] M. Mueller, W. Janke and D. A. Johnston, Plaquette Ising models, degeneracy and scaling, Eur. Phys. J. Special Topics, 226, Issue 4, 749–764 (2017)

[4] M. Mueller, W. Janke and D. A. Johnston, Boundary conditions subtleties in plaquette models (and the 1d Ising model), Nucl. Phys. B914, 388-404 (2017)

[5] M. Mueller, W. Janke and D. A. Johnston, Macroscopic degeneracy and order in the 3D plaquette Ising model, Modern Physics Letters B Vol. 29 1550109 (2015)

[6] M. Mueller, W. Janke and D. A. Johnston, Planar ordering in the plaquette-only gonihedric Ising model, Nucl. Phys. B894, 1-14 (2015)

[7] D. A. Johnston, $\mathbb{Z}_2$ Lattice Gerbe Theory, Phys. Rev. D 90, 107701 (2014)

[8] M. Mueller, W. Janke and D. A. Johnston, Multicanonical analysis of the plaquette-only gonihedric Ising model and its dual, Nucl. Phys. B888, 214-235 (2014)

[9] M. Mueller, W. Janke and D. A. Johnston, Nonstandard Finite-Size Scaling at First Order Phase Transitions, Phys. Rev. Lett. 112, 200601 (2014)

[10] N. Ananikian, N. Sh. Izmailyan, D. A. Johnston, R. Kenna and R. P. K. C. M. Ranasinghe, Potts models with invisible states on general Bethe lattices, J. Phys. A46 385002 (2013)

[11] D. A. Johnston and R. P. K. C. M. Ranasinghe, Potts Models with (17) Invisible States on Thin Graphs, J. Phys. A46 225001 (2013)

[12] D. A. Johnston, Gonihedric (and Fuki-Nuke) Order, J. Phys. A45 405001 (2012)

[13] D. A. Johnston and R. P. K. C. M. Ranasinghe, The Dual Gonihedric 3D Ising Model, J. Phys. A44 295004 (2011)

[14] W. Janke, D. Johnston and R. Kenna, Geometrothermodynamics of the Kehagias-Sfetsos Black Hole, J. Phys. A43 425206 (2010)

[15] R. Blythe W. Janke, D. Johnston and R. Kenna, Continued Fractions and the Partially Asymmetric Exclusion Process, J. Phys. A42 325002 (2009)

[16] M. Weigel and D. Johnston, Frustration effects in antiferromagnets on planar random graphs, Phys. Rev. B 76 054408 (2007)

[17] W. Janke, D. Johnston and R. Kenna, Self-consistent Scaling Theory for Logarithmic Correction Exponents, Phys. Rev. Lett. 97, 155702 (2006)

[18] W. Janke, D. Johnston and R. Kenna, Scaling Relations for Logarithmic Corrections, Phys. Rev. Lett. 96 115701 (2006)

[19] W. Janke, D. Johnston and R. Kenna, Properties of Higher Order Phase Transitions, Nucl. Phys. B 736, 319 (2005)

[20] R. Blythe W. Janke, D. Johnston and R. Kenna, Dyck Paths, Motzkin Paths and Traffic Jams, J. Stat.Mech. P10007 (2004)

[21] M. Baig, J. Clua, D.A. Johnston, R. Villanova, Fixed boundary conditions analysis of the 3d Gonihedric Ising model with $\kappa = 0$, Phys. Lett. B 585, 180 (2004)

[22] R. Blythe W. Janke, D. Johnston and R. Kenna, The Grand Canonical Asymmetric Exclusion Process and the One-Transit Walk, J. Stat.Mech. P06001 (2004)

[23] W. Janke, D. Johnston and R. Kenna, Phase Transition Strength through Density of General Distributions of Zeros, Nucl. Phys. B [FS] 682/3, 618-634 (2004)

[24] W. Janke, D. Johnston and R. Kenna, The Information Geometry of the Spherical Model, Phys. Rev. E67, 046106 (2003)

[25] W. Janke, D. Johnston and R.P.K.C. Malmini, The Information Geometry of the Ising Model on Planar Random Graphs, Phys. Rev. E66, 056119 (2002)

[26] B. Dolan, D. Johnston and R. Kenna, The Information Geometry of the 1D Potts Model, J. Phys. A 35, 9025-9035 (2002)

[27] W. Janke, D. Johnston and M. Stathakopoulos, A Kertesz Line on Planar Random Graphs?, J. Phys. A35, 7575 (2002)

[28] D. Johnston and R.P.K.C. Malmini, Decorating Random Quadrangulations, J. Phys. A35 L1-L6 (2002)

[29] P. Svenson and D. Johnston, Damage spreading in small world Ising models, Phys. Rev. E 65, 036105 (2002)

[30] Z. Burda, D. Johnston, J. Jurkiewicz, M. Kaminski, M.A. Nowak, G. Papp, I. Zahed, Wealth Condensation in Pareto Macro-Economies, Phys. Rev. E65, 026102 (2002)

[31] B. Dolan and D. Johnston, 1D Potts, Lee-Yang Edges and Chaos, Phys. Rev. E65, 057103 (2002)

[32] A. Lipowski and D. Johnston, Tensionless structure of glassy phase, Phys. Rev. E65, 017103 (2001)

[33] A. Lipowski and D. Johnston, Crystallization of a supercooled liquid and of a glass - Ising model approach, Phys. Rev. E64 041605 (2001)

[34] W. Janke, D. Johnston and M. Stathakopoulos, Fat Fisher Zeroes, Nucl. Phys. B614 494-512 (2001)

[35] B. Dolan, W. Janke, D. Johnston and M. Stathakopoulos, Thin Fisher Zeroes, J. Phys. A34 6211-6223 (2001)

[36] A. Lipowski, D. Johnston and D. Espriu, Slow dynamics of Ising models with energy barriers, Phys Rev. E62 3404-3410 (2000)

[37] P. Bialas, L. Bogacz, Z. Burda and D. Johnston, Finite Size Scaling in the Balls in Boxes Model, Nucl. Phys. B575 599-612 (2000)

[38] A. Lipowski and D. Johnston, Cooling rate effects in a model of glass Phys Rev. E61 6375 (2000)

[39] W. Janke, D. Johnston and R. Villanova, Spin Models on Random Lattices, Physica A281 207-220 (2000)

[40] W. Janke and D. Johnston, Non-self-averaging in autocorrelations: Ising and Potts Models on Quenched Random Gravity Graphs, J. Phys. A33 2653-2662 (2000)

[41] A. Lipowski and D. Johnston, Metastability in 4-spin Ising model, J. Phys. A33 4451-4460 (2000)

[42] W. Janke and D. Johnston, Ising and Potts Models on Quenched Random Gravity Graphs, Nucl. Phys. B578 681-698 (2000)

[43] W. Janke and D. Johnston, The Wrong Kind of Gravity, Phys. Lett. B460 271-275 (1999)

[44] D. Johnston, A Potts/Ising Correspondence on thin graphs, J. Phys. A32 5029-5036 (1999)

[45] D. Johnston, Symmetric Vertex Models on Planar Random Graphs, Phys. Lett. B463 9-18 (1999)

[46] P. Bialas, Z. Burda and D. Johnston, Phase Diagram of the Mean Field Model of Simplicial Quantum Gravity, Nucl. Phys. B542 413-424 (1999)

[47] D. Johnston and P. Plechac, Vertex Models on Feynman Diagrams, Phys. Lett. A248 37-45 (1998)

[48] D. Johnston, Thin Animals, J. Phys. A31 9405-9417 (1998)

[49] D. Johnston, The Yang Lee Edge Singularity on Feynman Diagrams: J. Phys. A31 5461-5469 (1998)

[50] D. Johnston and P. Plechac, Equivalence of Ferromagnetic Spin Models on Trees and Random Graphs: J. Phys. A31 475-482 (1998)

[51] D. Johnston and P. Plechac, Potts Models on Feynman Diagrams: J. Phys. A30, 7349-7363 (1997)

[52] M. Baig, D. Espriu, D. Johnston and R.K.P.C. Malmini, String tension in gonihedric 3D Ising models: J. Phys. A30 7695-7706 (1997)

[53] P. Bialas, Z. Burda and D. Johnston, Condensation in the Backgammon Model: Nucl. Phys. B493, 505-516 (1997)

[54] E. Cirillo, G. Gonnella A. Pelizzola and D. Johnston, The phase diagram of the 3D gonihedric Ising model via CVM: Phys. Lett. A226, 59-64 (1997)

[55] M. Baig, D. Espriu, D. Johnston and R.K.P.C. Malmini, Evidence for a first order transition in a plaquette 3d Ising-like action: J. Phys. A30, 405-412 (1997)

[56] C. Baillie, D. Johnston, E. Marinari and C. Naitza, Dynamic Behavior of Spin Glasses on Quenched ϕ^3 graphs: J. Phys. A29, 6683-6691 (1996)

[57] C. Baillie, W. Janke and D. Johnston, Softening of Phase Transitions on Quenched Random Gravity Graphs: Phys. Lett. B388, 14-20 (1996)

[58] D. Johnston and R.K.P.C. Malmini, Gonihedric 3D Ising Models: Phys. Lett. B378, 87-96 (1996)

[59] C. Baillie, N. Dorey, W. Janke and D. Johnston, The Villain Model on Thin Graphs: Phys. Lett. B369, 123-9 (1996)

[60] C. Baillie and D. Johnston, Square Gravity: Phys. Lett. B357, 287-294 (1995).

[61] C. Baillie, W. Janke, D. Johnston and P. Plechac, Spin Glasses on Thin Graphs: Nucl. Phys. B450 [FS], 730-752 (1995)

[62] D. Johnston, A Remark on the Renormalization Group Equation for the Penner Model: Phys. Rev. D51, 2014-6 (1995)

[63] C. Baillie, D. Johnston and J-P. Kownacki, Ising Spins on Thin Graphs: Nucl. Phys. B432, 551-570. (1994)

[64] D. Johnston, Frustrating and Diluting Dynamical Lattice Ising Spins: Phys. Lett. B336, 229-36, (1994)

[65] C. Baillie, K. Hawick and D. Johnston, Quenching 2D Quantum Gravity: Phys. Lett. B328, 284-90 (1994)

[66] C. Baillie and D. Johnston, Damaging 2D Quantum Gravity: Phys. Lett. B326, 51-6, (1994)

[67] C. Baillie, A. Irback, W. Janke and D. Johnston, Scaling in Steiner Random Surfaces : Phys. Lett. B325, 45-50, (1994)

[68] C. Baillie and D. Johnston, Smooth Random Surfaces from Tight Immersions?: Phys. Rev. D49, 4139-43, (1994)

[69] C. Baillie and D. Johnston, 2D O(3) model coupled to 2D Quantum Gravity: Phys. Rev. D49, 603-6 (1994)

[70] C. Baillie, W. Janke and D. Johnston, Solid on Solid on Fluid Lattices : Phys Lett. B318, 424-32 (1993)

[71] D. Johnston Ising (anti-)ferromagnet on dynamical triangulations and quadrangulations: Phys. Lett. B314, 69-73, (1993)

[72] C. Baillie and D. Johnston, Freezing Fluid Random Surfaces: Phys. Rev. D48, 5025-8, (1993).

[73] C. Baillie, D. Espriu and D. Johnston, Steiner Variations on Random Surfaces: Phys. Lett. B305, 109-114, (1993)

[74] C. Baillie and D. Johnston Crossover Between Weakly and Strongly Self-Avoiding Random Surfaces: Phys. Lett. B295, 249-55, (1992)

[75] C. Baillie and D. Johnston, The XY Model Coupled to Two-Dimensional Quantum Gravity: Phys. Lett. B291, 233-40, (1992)

[76] C. Baillie and D. Johnston, An Effective Model for Crumpling in Two-Dimensions: Phys. Rev. D46, 4761-4, (1992)

[77] C. Baillie and D. Johnston, Multiple Potts Models Coupled to Two-Dimensional Quantum Gravity: Phys. Lett. B286, 44-52, (1992)

[78] C. Baillie and D. Johnston, A Modified Steiner Fuctional String Action: Phys. Rev. D45, 3326-30 (1992)

[79] C. Baillie and D. Johnston, Strong Self-Avoidance and Crumpling in Random Surfaces with Extrinsic Curvature : Phys. Lett. B283, 55-62 (1992)

[80] D. Johnston, Zero Potts Models Coupled to Two-Dimensional Gravity: Phys. Lett. B277, 405-10, (1992)

[81] C. Baillie and D. Johnston, A Numerical Test of KPZ Scaling: Potts Models Coupled to 2D Quantum Gravity: Mod. Phys. Lett. A7, 1519-31, (1992)

[82] C. Baillie and D. Johnston, Weak Self Avoidance and Crumpling in Random Surfaces with Extrinsic Curvature: Phys. Lett. B273, 380-8, (1991)

[83] C. Baillie, D. Johnston, Crumpling Dynamically Triangulated Random Surfaces in Two Dimensions: Phys. Lett. B258, 346-52, (1991)

[84] D. Johnston, Spiky Projective Planes: Phys. Lett. B257, 51-5, (1991)

[85] J. Ambjorn, A. Bellini and D. Johnston, Spiky Higher Genus Strings: Mod. Phys. Lett. A6, 2467-74, (1991)

[86] C. Baillie, S. Catterall, D. Johnston and R. Williams, Further Investigations of the Crumpling Transition in Dynamically Triangulated Random Surfaces): Nucl. Phys. B348, 543, (1991)

[87] C. Baillie, D. Johnston and R. Williams, Non-Universality in Dynamically Triangulated Random Surfaces with Extrinsic Curvature: Mod. Phys. Lett. A5, 1671-8, (1990)

[88] C. Baillie, D. Johnston and R. Williams, Crumpling Dynamically Triangulated Random Surfaces in Higher Dimensions: Phys. Lett. B243, 358-364, (1990)

[89] D. Johnston, Tubes and Supertubes: Phys. Lett. B241, 41-44, (1990)

[90] D. Johnston, Superspikes: Phys. Lett. B235, 291-294, (1990)

[91] C. Baillie, D. Johnston and R. Williams, Computing Aspects of Simulating Dynamically Triangulated Random Surfaces: Comp. Phys. Comm. 58-65, 105, (1990)

[92] C. Baillie G. Kilcup and D. Johnston, Computational Status and Prospects of Lattice Calculations in High Energy Physics: Jour. of Supercomputing (1990) 277-300

[93] C. Baillie, D. Johnston and R. Williams, Crumpling in Dynamically Triangulated Random Surfaces with Extrinsic Curvature: Nucl. Phys. B335, 469-501, (1990)

[94] D. Johnston, Putting Liouville into Superstrings: Phys. Lett. B232, 180-183, (1989)

[95] D. Johnston, Phase Transition in Liouville theory: Phys. Rev. D40, 3402-7, (1989)

[96] C. Baillie and D. Johnston, Metropolis and Langevin time: Phys. Rev. D39, 1246-1248, (1989)

[97] D. Johnston, A local fermionic ghost number anomaly for the Kallosh quantization of the heterotic string?: Phys. Lett. B209, 239-241, (1988)

[98] G. Gilbert and D. Johnston, Equivalence of the Kallosh and Carlip quantizations of the Green-Schwartz action for the heterotic string: Phys. Lett. B205, 273-280, (1988)

[99] D. Johnston, Sedentary ghost poles in higher derivative gravity: Nucl. Phys. B297, 721-732, (1988)

[100] D. Johnston, Gauge independence of mass counterterms in the abelian Higgs model and gravity: Nucl. Phys. B293, 229-240, (1987)

[101] D. Johnston, Coleman-Weinberg, Nielsen and daisies: Phys. Lett. B186, 185-188, (1987)

[102] D. Johnston, Gauge dependence of the one-loop effective action in gravity: Phys. Lett. B189, 311-314, (1987)

[103] D. Johnston, Nielsen identities for gauge-fixing vectors and effective actions containing composite operators: Nucl. Phys. B283, 317-330, (1987)

[104] D. Johnston, The Wess-Zumino gauge is a “Good" gauge: Phys. Lett. B182, 177-180, (1986)

[105] H. F. Jones and D. Johnston, X-space sum rules and the pion wavefunction in Q.C.D. : Zeit. fur Phys. C33, 281, (1986)

[106] D. Johnston, Convexity and tadpoles: Zeit fur Phys. C31,129-133, (1986)

[107] M. Hindmarsh and D. Johnston, Convexity of the effective potential: J. Phys. A19, 1-20, (1986)

[108] D. Johnston, Nielsen identities in the 't Hooft gauge: Nucl. Phys. B253, 687-700, (1985)

Conference Proceedings

[1] M. Mueller, W. Janke, and D. A. Johnston, Finite-Size Scaling and Latent Heat at the Gonihedric First-Order Phase Transition, Journal of Physics: Conference Series 640 012002 (2015)

[2] M. Mueller, W. Janke, and D. A. Johnston, Transmuted Finite-size Scaling at First-order Phase Transitions, 27th Annual CSP Workshop, Physics Proceedia 57 68-72 (2014)

[3] W. Janke, D. Johnston and R. Kenna, Properties of phase transitions of higher order, Proceedings of Science (Lattice 2005), 244 (2005)

[4] Z. Burda, D. Johnston, J. Jurkiewicz, M. Kaminski, M.A. Nowak, G. Papp, I. Zahed, Wealth Condensation and "Corruption" in a Toy Model, Acta Phys. Pol. 36 2442 (2005)

[5] W. Janke, D. Johnston and R. Kenna, Phase Transition Strength from General Distributions of Zeroes, Computer Physics Communications 169, proceedings of CCP-2004, 457-461 (2005)

[6] W. Janke, D. Johnston and R. Kenna, Information Geometry and Phase Transitions, Physica A, 336 181-186 (2004)

[7] W. Janke, D. Johnston and R. Kenna, Information Geometry, One, Two, Three and Four, Acta Phys. Pol. 34 4923-4937 (2003)

[8] W. Janke, D. Johnston and R. Kenna, New Methods to Measure Phase Transition Strength, Nucl. Phys. B (Proc. Suppl.) (2002)

[9] P. Bialas, Z. Burda and D. Johnston, Surplus Anomaly and Random Geometries: NATO ASI series B366 751-760, Plenum Press, ed. Poul Damgaard and J. Jurkiewicz (2002)

[10] W. Janke, D. Johnston and M. Stathakopoulos, Fat and Thin Fisher Zeroes, Nucl. Phys. B (Proc. Suppl.) (2001)

[11] W. Janke and D. Johnston, Non-Self-Averaging Autocorrelations for Quenched Connectivity Disorder, Computer Simulation Studies in Condensed-Matter Physics XIII Springer Proceedings in Physics Volume 86, 128-133 (2001)

[12] P. Bialas, Z. Burda and D. Johnston, Balls in Boxes and Quantum Gravity: Nucl. Phys. B (Proc. Suppl.) 63A-C 763-765 (1998)

[13] C. Baillie, W. Janke and D. Johnston, Softening Transitions with (Quenched) Gravity: Nucl. Phys. B53 (Proc. Suppl.) 732-735 (1997)

[14] D. Johnston and R.K.P.C. Malmini, Gonihedric 3D Ising Models: Nucl. Phys. B53 (Proc. Suppl.) 773-777 (1997)

[15] C. Baillie and D. Johnston, Spin Models on Thin Graphs: Nucl. Phys. B47 (Proc. Suppl. "Lattice95, Melbourne") 649-652 (1996)

[16] D. Johnston, J-P. Kownacki and A. Krzywicki, Random Geometries and Real Space Renormalization Group, Nucl. Phys. B42. (Proc. Suppl. "Lattice94, Bielefeld") 728-730 (1995)

Invited Review Papers

[1] D. A. Johnston, A. Lipowski and Ranasinghe P. K. C. Malmini, The Gonihedric Ising Model and Glassiness, in Rugged Free-Energy Landscapes - An Introduction, Springer Lecture Notes in Physics, 736, ed. W. Janke, (2008)

[2] W. Janke, D. Johnston and M. Weigel, Two-dimensional quantum gravity – a laboratory for fluctuating graphs and quenched connectivity disorder, Condensed Matter Physics, Vol. 9, No 2(46) (2006)

[3] D. Johnston, Gravity and Random Surfaces: A Review, Nucl. Phys. B53 (Proc. Suppl.) 43-55 (1997)