

Address

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<http://personal.ph.surrey.ac.uk/~m01088/>
Born: Barcelona (Spain), 15 October, 1980.

EDUCATION

JUN 2002 Bachelor degree (licenciado) in Physics, University of Barcelona.
SEP 2004 Master degree (DEA, Diploma on Advanced Studies) in Theoretical Physics,
University of Barcelona.
FEB 2007 Ph.D. in Physics, University of Barcelona.

RESEARCH EXPERIENCE

SEP 2002 PhD in Theoretical Nuclear Physics, Nuclear Physics Group, Dept. Estructura i Constituents de la Matèria, University of Barcelona (Spain).
FEB 2007
MAR 2007 Postdoctoral Research Associate, Theory Group, National Superconducting
APR 2009 Cyclotron Laboratory, Michigan State University (US).
MAY 2009 Postdoctoral Fellow, Nuclear Physics Group, University of Surrey (UK).
AUG 2009
AUG 2009 Marie Curie IEF Fellow, Nuclear Physics Group, University of Surrey (UK).
AUG 2011
AUG 2011 STFC Advanced Fellow, Nuclear Physics Group, University of Surrey (UK).
PRESENT

TEACHING EXPERIENCE

SEP 2002 Teaching assistant, Introductory Physics, 0th-level course.
JAN 2003
SEP 2004 Teaching assistant, Introductory Mathematics, 0th-level course.
JAN 2006

University of Surrey

SEP 2011 Physics Tutorials (Level 1).
DEC 2012

FEB 2012 Physics Tutorials (Level 1) & Physics of the Stars (Level 3).
JUN 2012

RESEARCH STAYS (OVER 1 WEEK)

MAR 2004 *Institut für Theoretische Physik, University of Tuebingen (Germany)*, 3 week
APR 2004 stay under the supervision of Prof. Herbert Müther.

MAY 2004 *GSI Theory Division, Darmstadt (Germany)*, 2 month stay under the
JUN 2004 supervision of Prof. Bengt Friman and Dr. Isaac Vidaña.

MAY 2005 *GSI Theory Division, Darmstadt (Germany)*, 2 week stay.

SEP 2005 *Institute de Physique Nucléaire at Orsay, Theoretical Physics Group (France)*
NOV 2005 2 month stay under the supervision of Dr. Jérôme Margueron.

FEB 2008 *KITP, Santa Barbara (California, US)*, 3 week stay attending the program
“Nonequilibrium Dynamics in Particle Physics and Cosmology”.

FEB 2009 *Washington University at St Louis (Missouri, US)*, 2 week stay. Work in
collaboration with Prof. Willem H. Dickhoff.

JUN 2009 *KITPC, Beijing (China)*, 3 week stay attending the program “Relativistic
many-body problems for heavy and superheavy nuclei”.

OTHER SKILLS

FELLOWSHIPS ● Awarded an STFC Advanced Fellowship to pursue research at the University
AND AWARDS of Surrey. 2011-2016.

 ● Awarded a Marie Curie Intra-European Fellowship (IEF) to pursue post-
 doctoral research at the University of Surrey. 2009-2011.

 ● Awarded a 4-year Fellowship of the Generalitat de Catalunya (FI) to pursue
 doctoral studies at the University of Barcelona. 2002-2006.

 ● Awarded the 2005 “Jordi Porta” Prize of the Catalan Society for Physics
 to a research report written in Catalan, for the work: *Chiral Unitarization
Techniques for the Meson-Baryon Interaction: The pentaquark Θ^+* .

LANGUAGES ● Catalan and Spanish as mother tongues.

 ● English and French with high level reading, writing and speaking skills.
 (official titles: up to CAE and DALF)

 ● German with average reading, writing and speaking skills. 5 years of studies.

OUTREACH
ACTIVITIES

- Organizer (2005-2007) of the “Close encounters with the third cycle”, a series of physics outreach seminars for undergraduates given by Ph.D. students at the Physics Faculty of the University of Barcelona. This activity is still financially supported by the University and the Catalan Society for Physics.
<http://www.ecm.ub.es/~jgrande/encontres.html>
- Organizer of “Einstein Comestible” (Einstein Edible), the closing dinner of the 2005 World Year of Physics in Catalonia, promoted by the Catalan Societies for Physics and for the History of Science and Technology, 30 November 2005, Barcelona.
<http://www.ffn.ub.es/esallent/einsteingaleta/einsteingaleta.htm>
- Attended the course ”Communication Skills” at the Royal Society (London, 2 March 2011).

MEMBERSHIPS

- Member of the Institute of Physics, American Physical Society and the Catalan Society for Physics.

REFEREEING

- Referee for Physical Review Letters, Physical Review C, Nuclear Physics A, Physics Letters B and Europhysics Letters.

1. A. Carbone, A. Polls and A. Rios, *High-momentum components in the nuclear symmetry energy*, EPL **97**, 22001 (2012). arXiv:1111.0797.
<http://dx.doi.org/doi:10.1209/0295-5075/97/22001>
2. A. Rios and V. Somà, *Self-consistent Green's functions calculation of the nucleon mean-free path*, Physical Review Letters **108**, 012501 (2012). arXiv:1109.4904.
<http://dx.doi.org/doi:10.1103/PhysRevLett.108.012501>
3. A. Rios, B. Barker, M. Buchler and P. Danielewicz, *Towards a time-dependent Green's functions description of nuclear reactions: one-dimensional mean-field dynamics*, Annals of Physics **326**, 1274 (2011). arXiv:1009.0215,
<http://dx.doi.org/doi:10.1016/j.aop.2010.12.009>
4. A. Carbone, A. Polls, A. Rios and I. Vidaña, *Latent heat of nuclear matter*, Physical Review C **83**, 024308 (2011). arXiv:1012.2333,
<http://dx.doi.org/doi:10.1103/PhysRevC.83.024308>
5. A. Rios, *Effective interaction dependence of the liquid-gas phase transition in symmetric nuclear matter*, Nuclear Physics A **845**, 58 (2010). arXiv:1002.1907
<http://dx.doi.org/doi:10.1016/j.nuclphysa.2010.05.057>
6. I. Vidaña, C. Providencia, A. Polls and A. Rios *Density dependence of the nuclear symmetry energy: a microscopic perspective*, Physical Review C **80**, 045806 (2009). arXiv:0907.1165
<http://dx.doi.org/doi:10.1103/PhysRevC.80.045806>
7. A. Rios, A. Polls, and W. H. Dickhoff, *Depletion of the nuclear Fermi sea*, Physical Review C **79**, 064308 (2009). arXiv:0904.2183
<http://dx.doi.org/doi:10.1103/PhysRevC.79.064308>
8. A. Rios, A. Polls and I. Vidaña, *Hot neutron matter from a Self-Consistent Green's Functions approach*, Physical Review C **79**, 025802 (2009).
arXiv:0809.1467 <http://dx.doi.org/doi:10.1103/PhysRevC.79.025802>
9. A. Rios, A. Polls, A. Ramos and H. Müther, *Liquid-gas phase transition in nuclear matter from realistic many-body approaches*, Physical Review C **78**, 044314 (2008). arXiv:0805.2318
<http://dx.doi.org/doi:10.1103/PhysRevC.78.044314>
10. D. López-Val, A. Rios, A. Polls and I. Vidaña, *Ferromagnetic instabilities in neutron matter at finite temperature with the Gogny interaction*, Physical Review C **74**, 068801 (2006). arXiv:nucl-th/0604058
<http://dx.doi.org/doi:10.1103/PhysRevC.74.068801>
11. A. Rios, A. Polls, A. Ramos and H. Müther, *Entropy of a correlated system of nucleons*, Physical Review C **74**, 054317 (2006). arXiv:nucl-th/0605080
<http://dx.doi.org/doi:10.1103/PhysRevC.74.054317>
12. A. Rios, *El pentaquark Θ^+ i les tècniques d'unificarització quirals*, Revista de Física **3**, (10), 34 (2006).
<http://publicacions.iec.cat/repository/pdf/00000045/00000057.pdf>
13. A. Rios, A. Polls and H. Müther, *Sum rules of single-particle spectral functions in hot asymmetric nuclear matter*, Physical Review C **73**, 024305 (2006). arXiv:nucl-th/0507056
<http://dx.doi.org/doi:10.1103/PhysRevC.73.024305>

14. I. Bombaci, A. Polls, A. Ramos, A. Rios and I. Vidaña, *Microscopic calculations of spin polarized neutron matter at finite temperature*, Physics Letters B **632**, 638 (2006). arXiv:nucl-th/0506016
<http://dx.doi.org/doi:10.1016/j.physletb.2005.08.136>
15. A. Rios, A. Polls, A. Ramos and I. Vidaña, *Bulk and single-particle properties of hyperonic matter at finite temperature*, Physical Review C **72**, 024316 (2005). arXiv:nucl-th/0503074
<http://dx.doi.org/doi:10.1103/PhysRevC.72.024316>
16. A. Rios, A. Polls and I. Vidaña, *Ferromagnetic instabilities in neutron matter at finite temperature with the Skyrme interaction*, Physical Review C **71**, 055802 (2005). arXiv:nucl-th/0501035
<http://dx.doi.org/doi:10.1103/PhysRevC.71.055802>
17. T. Frick, H. Mütter, A. Rios, A. Polls and A. Ramos, *Correlations in hot asymmetric nuclear matter*, Physical Review C **71**, 014313 (2005). arXiv:nucl-th/0409067
<http://dx.doi.org/doi:10.1103/PhysRevC.71.014313>

CONFERENCE PROCEEDINGS

1. A. Rios, A. Carbone, A. Polls and I. Vidaña, *Liquid-gas phase transition in nuclear matter in the mean-field approximation*, in Proceedings of the International Conference on “Many body correlations from dilute to dense nuclear systems”, Journal of Physics: Conference Series 321, 012058 (2011).
<http://dx.doi.org/doi:10.1088/1742-6596/321/1/012058>
2. A. Rios, W. H. Dickhoff and A. Polls, *Role of short-range and tensor correlations in nuclei*, in Proceedings of the International Conference on “Many body correlations from dilute to dense nuclear systems”, Journal of Physics: Conference Series 321, 012038 (2011).
<http://dx.doi.org/doi:10.1088/1742-6596/321/1/012038>
3. A. Rios, W. H. Dickhoff and A. Polls, *Role of short-range and tensor correlations in nuclei*, in Proceedings of the “International Nuclear Physics Conference 2010”, Journal of Physics: Conference Series 312, 022007 (2011).
<http://dx.doi.org/doi:10.1088/1742-6596/312/2/022007>
4. I. Vidaña, C. Providência, A. Polls and A. Rios, *Symmetry Energy, Neutron Star Crust and Neutron Skin Thickness*, in Proceedings of the “21st European Conference on Few-Body Problems in Physics”, Few-Body Systems 50, 327 (2011).
<http://dx.doi.org/doi:10.1007/s00601-010-0181-x>
5. A. Polls, W. H. Dickhoff, H. Mütter, A. Ramos, A. Rios, and I. Vidaña, *Nucleon correlations and the equation of state of nuclear matter*, in Proceedings of the “International Workshop on Chiral Symmetry in Hadrons and Nuclei”, American Institute of Physics Proceedings 1322, 99 (2010).
<http://dx.doi.org/doi:10.1063/1.3542037>
6. P. Danielewicz, A. Rios and B. Barker, *Towards quantum transport for nuclear reactions*, in Proceedings of the Conference “Frontiers of Quantum and Mesoscopic Thermodynamics”, Physica E **42**, 501 (2010). arXiv:0906.4841
<http://dx.doi.org/doi:10.1016/j.physe.2009.08.014>
7. A. Rios, *Entropy of a correlated system of nucleons*, in Proceedings of the Conference “Frontiers of Quantum and Mesoscopic Thermodynamics”, Physica E **42**, 508 (2010).
<http://dx.doi.org/doi:10.1016/j.physe.2009.06.030>

8. A. Rios, P. Danielewicz and B. Barker *Time-dependent Green's functions description of one-dimensional nuclear mean-field dynamics*, in Proceedings of the 5th ANL/MSU/JINA/INT/FRIB Workshop on "Bulk Nuclear Properties", American Institute of Physics Proceedings 1128, 120 (2009).
<http://dx.doi.org/doi:10.1063/1.3146207>
9. A. Rios, A. Polls, A. Ramos and H. Mütter, *Liquid-gas phase transition in nuclear matter within a correlated approach*, in Proceedings of the XIV International Conference on Recent Progress in Many-Body Theories, Eds. J. Boronat, G. E. Astrakharchik and F. Mazzanti, World Scientific, Series on Advances in Quantum Many-body Theory Vol. 11, Pags. 275-278 (2008).
10. A. Rios and P. Danielewicz, *Time-dependent Green's functions approach to nuclear reactions*, in Proceedings of the 2007 Workshop on Nuclei and Mesoscopic Physics, American Institute of Physics Proceedings 995, 98 (2008). arXiv:0801.4171
<http://dx.doi.org/doi:10.1063/1.2915626>
11. A. Polls, A. Ramos, A. Rios and H. Mütter, *Thermodynamics of Correlated Nuclear Matter*, in "Exotic States of Nuclear Matter" Proceedings of the International Symposium EXOCT07, Eds. U. Lombardo, M. Baldo, F. Burgio, H-J. Schulze, World Scientific, Pags. 27-34 (2008).
12. A. Rios, A. Polls, A. Ramos and H. Mütter, *The entropy of a correlated system of nucleons*, in Proceedings of the 28 Erice International School of Nuclear Physics, Progress in Particle and Nuclear Physics 59, 311 (2007).
<http://dx.doi.org/doi:10.1016/j.ppnp.2006.12.031>
13. A. Rios, A. Polls, A. Ramos and H. Mütter, *The entropy of a correlated system of nucleons*, in Proceedings of the V International Conference on Perspectives in Hadronic Physics, Nuclear Physics A 782, 346c (2007).
<http://dx.doi.org/doi:10.1016/j.nuclphysa.2006.10.066>
14. A. Polls, A. Rios, A. Ramos and H. Mütter, *Correlations in hot asymmetric nuclear matter*, in Proceedings of the XIII International Conference on Recent Progress in Many-Body Theories, International Journal of Modern Physics B 20, 5346 (2006).
<http://dx.doi.org/doi:10.1142/S0217979206036466>
15. A. Rios, A. Polls and J. Margueron, *Neutrino propagation in dense hadronic matter*, in Proceedings of the XX Max Born Symposium "Nuclear effects in neutrino interactions", Acta Physica Polonica B **37**, 2403 (2006). arXiv:nucl-th/0607057
<http://th-www.if.uj.edu.pl/acta/vol37/abs/v37p2403.htm>
16. A. Rios, A. Polls, A. Ramos and I. Vidaña, *Equation of state of hypernuclear matter and neutron stars*, in The Hispalensis Lectures on Nuclear Physics, Vol. 2, J.M. Arias, M. Lozano (Eds), Lect. Notes Phys. 652 (Springer, Berlin Heidelberg 2005).
<http://dx.doi.org/10.1007/b99182>

ATTENDED SCIENTIFIC EVENTS

CONFERENCES & SYMPOSIA

- 2006 1. *V International Conference on Perspectives in Hadronic Physics*, 22-26 May 2006, ICTP, Trieste (Italy). Contribution: talk.
- 2007 2. *XIV International Conference on Recent Progress in Many Body Theories*, 16-20 July 2007, Barcelona (Spain). Contribution: talk.
- 2008 3. *Nonequilibrium Phenomena in Cosmology and Particle Physics*, 25-29 February 2008, Kavli Institute for Theoretical Physics, Santa Barbara (California, USA). Contribution: poster.
4. *Nuclear Structure 2008*, 2-6 June 2008, Michigan State University, East Lansing (Michigan, USA). Contribution: poster.
5. *Gordon Research Conference on Nuclear Chemistry*, 15-20 June 2008, Colby-Sawyer College (New Hampshire, USA). Contribution: poster.
6. *Frontiers of Quantum and Mesoscopic Thermodynamics*, 28 July-2 August 2008, Prague (Czech Republic). Contribution: poster.
7. *Fall Meeting of the American Physical Society, Division of Nuclear Physics*, 23-26 October 2008, Oakland (California, USA). Contribution: 2 talks.
- 2009 8. *Relativistic Many-body Problems for Heavy and Superheavy Nuclei*, 8-27 June 2009, KITPC, Beijing (China). Contribution: talk.
9. *Progress in Non-Equilibrium Green's Functions IV*, 17-21 August 2009, University of Glasgow, Glasgow (UK). Contribution: talk & poster.
- 2010 10. *IoP Nuclear Physics Conference*, 19-21 April 2010, University of Edinburgh, Edinburgh (UK). Contribution: talk.
11. *International Nuclear Physics Conference*, 4-9 July 2010, hosted by TRIUMF, Vancouver (Canada). Contribution: invited talk & poster.
- 2011 12. *International Conference on Many-body correlations from dilute to dense nuclear systems*, 15-18 February 2011, Institut Henri Poincaré, Paris (France). Contribution: talk & poster.
13. *IoP Nuclear and Particle Physics Divisional Conference*, 4-7 April 2011, University of Glasgow, Glasgow (UK). Contribution: talk & poster.
14. *International Symposium on Non-Equilibrium Dynamics (NeD-2011)*, 31 August-1 September 2011, Heraklion (Crete, Greece). Contribution: invited talk.

WORKSHOPS

- 2003 1. *The Physics of Compact Stellar Objects*, 8-11 September 2003, Instituto de Física Corpuscular, Valencia (Spain).
- 2005 2. *Nuclear Effects in Neutrino Interactions*, XX Max Born Symposium, 7-10 December 2005, Wroclaw (Poland). Contribution: talk.
- 2006 3. *Understanding Neutron Stars*, 25-27 September 2006, University of Alacant, Alacant (Spain). Contribution: talk.

- 2007
4. *Advanced Many-Body Methods for Nuclear Structure*, 2-6 July 2007, ECT*, Trento (Italy). Contribution: [talk](#).
 5. *XXth Midwest Theory Get-together*, 5-6 October 2007, Argonne National Laboratory, Argonne, Illinois (USA). Contribution: [talk](#).
 6. *Workshop on Nuclei and Mesoscopic Physics*, 20-22 October 2007, Michigan State University, East Lansing (Michigan, USA). Contribution: [talk](#).
 7. *Short-Range Structure of Nuclei at 12 GeV*, 26-27 October 2007, Thomas Jefferson Laboratory, Newport News (Virginia, USA). Contribution: [talk](#).
- 2008
8. *TNET: The EURONS European Theory Network*, 7-11 January 2008, ECT*, Trento (Italy). Contribution: [talk](#).
 9. *The Equation of State at Nonzero Density and Temperature, and its Application in Astrophysics*, 25-29 August 2008, Argonne National Laboratory, Argonne (Illinois, USA). Contribution: [talk](#).
 10. *XXIst Midwest Theory Get-together*, 17-18 October 2008, Argonne National Laboratory, Argonne (Illinois, USA). Contribution: [talk](#).
 11. *5th ANL/MSU/JINA/INT/FRIB Workshop on Bulk Nuclear Properties*, 19-22 November 2008, Michigan State University, East Lansing (Michigan, USA). Contribution: [talk](#).
- 2010
12. *Compstar 2010: Computational Tools for Compact Star Astrophysics*, 14-16 February 2010, GANIL, Caen (France). Contribution: [talk](#).
 13. *6th ANL/MSU/JINA/INT/FRIB Workshop on Computational Forefront in Nuclear Theory*, 23-26 March 2010, Argonne National Laboratory, Argonne (Illinois, USA). Contribution: [invited talk](#).
 14. *Reactions and Nucleon Properties in Rare Isotopes*, 6-10 April 2010, ECT*, Trento (Italy). Contribution: [talk](#).
 15. *Decoherence in Quantum Dynamical Systems*, 26-30 April 2010, ECT*, Trento (Italy). Contribution: [talk](#).
 16. *Self-Consistent Green's Functions methods*, 9-10 September 2010, CEA, Saclay (France). Contribution: [talk](#).
 17. *V Encuentros de Física Nuclear*, 27-29 September 2010, El Escorial (Spain). Contribution: [talk](#).
- 2011
18. *PRESPEC Decay Physics Workshop*, 12-13 January 2011, Brighton (UK).
 19. *Compstar 2011: Gravitational Waves and Electromagnetic Radiation from Compact Stars*, 9-12 May 2011, INFN & University of Catania, Catania (Italy). Contribution: [invited talk](#).
 20. *Three-Nucleon Forces in Vacuum and in the Medium*, 11-15 May 2011, ECT*, Trento (Italy). Contribution: [talk](#).
 21. *Solving the two-time Kadanoff-Baym equations workshop*, 12-13 October 2011, University of Kiel, Kiel (Germany). Contribution: [talk](#).
 22. *International Workshop on Multifragmentation 2011*, 2-5 November 2011, GANIL, Caen (France). Contribution: [invited talk](#).

TALKS AND SEMINARS

- 2003 1. *Nuclear matter at finite temperature*, talk at the VIII Hispalensis International Summer School on “Exotic Nuclear Physics”, 16 June 2003, Sevilla (Spain).
- 2005 2. *Fermi liquid theory and neutrino propagation in hadronic matter*, talk at the XX Max Born Symposium “Nuclear effects in neutrino interactions”, 10 December 2005, Wroclaw (Poland).
- 2006 3. *The entropy of a correlated system of nucleons*, talk at the V International Conference on Perspectives in Hadronic Physics, 25 May 2006, ICTP, Trieste (Italy).
4. *The entropy of a correlated system of nucleons*, talk at the 28 Erice International School on Nuclear Physics, 22 September 2006, Erice, Sicily (Italy).
5. *The entropy of a correlated system of nucleons*, talk at the “Understanding Neutron Stars” Workshop, 25 September 2006, Alacant (Spain).
- 2007 6. *Thermodynamical properties of nuclear matter from a Self-Consistent Green’s Function Approach*, talk at the “Advanced Many-Body Methods for Nuclear Physics” Workshop, 3 July 2007, ECT*, Trento (Italy).
7. *Liquid-gas phase transition of nuclear matter from a correlated approach*, talk at the XIV International Conference on Recent Progress in Many-Body Theory, 19 July 2007, Barcelona (Spain).
8. *A time-dependent Green’s functions approach to nuclear reactions*, talk at the “XXth Midwest Theory Get-Together”, 6 October 2007, Argonne National Laboratory, Argonne (Illinois, USA).
9. *Correlations in hot asymmetric nuclear matter*, invited talk at the “Short-Range Structure of Nuclei at 12 GeV” Workshop, 26 October 2007, Thomas Jefferson Laboratory, Newport News (Virginia, USA).
10. *Hot dense matter and neutron stars: finite temperature effects on nuclear systems*, seminar at the Physics Department of the Virginia Polytechnic Institute and State University, 29 October 2007, Blacksburg (Virginia, USA).
- 2008 11. *Time-dependent Green’s functions approach to nuclear reactions*, talk at the “TNET: The EURONS European Theory Network” Workshop, 10 January 2008, ECT*, Trento (Italy).
12. *Self-Consistent Green’s Function approach to nuclear matter at finite temperature*, seminar at the Centre for Nuclear and Radiation Physics, University of Surrey, 15 January 2008, Guilford (UK).
13. *Correlations in hot nuclear matter*, seminar at the Department of Physics, Washington University in Saint Louis, 17 April 2008, Saint Louis (Missouri, USA).
14. *Self-Consistent Green’s Functions approach to nuclear matter at finite temperature*, talk at the “The Equation of State at Nonzero Density and Temperature” Workshop, 29 August 2008, Argonne National Laboratory, Argonne (Illinois, USA).
15. *Towards a time-dependent Green’s functions approach to nuclear reactions: 1D dynamics*, talk at the “XXIst Midwest Theory Get-Together”, 18 October 2008, Argonne National Laboratory, Argonne (Illinois, USA).

16. *Time-dependent Green's Functions approach to nuclear reactions*, talk at the "Fall Meeting of the APS Division of Nuclear Physics", 24 October 2008, Oakland (California, USA).
 17. *Correlated momentum distribution in asymmetric nuclear matter*, talk at the "Fall Meeting of the APS Division of Nuclear Physics", 24 October 2008, Oakland (California, USA).
 18. *Time-dependent Green's Functions approach to nuclear reactions*, talk at the 5th ANL/MSU/JINA/INT/FRIB Workshop on "Bulk Nuclear Properties", 19 November 2008, Michigan State University, East Lansing (Michigan, USA).
- 2009
19. *Time-dependent Green's functions description of nuclear mean-field dynamics*, nuclear physics seminar at the Department of Physics, Washington University in Saint Louis, 21 February 2009, Saint Louis (Missouri, USA).
 20. *Time-dependent Green's functions approach to nuclear reactions*, talk at the program "Relativistic many-body problems for heavy and superheavy nuclei", 22 June 2009, Kavli Institute for Theoretical Physics China, Beijing (China).
 21. *Time-dependent Green's functions approach to nuclear reactions*, seminar at the China Institute for Atomic Energy, 24 June 2009, Beijing (China).
 22. *Correlations in hot nuclear matter*, seminar at Department of Physics, Shanghai Jiao Tong University, 29 June 2009, Shanghai (China).
 23. *Time-dependent Green's functions approach to nuclear reactions*, talk at the "Progress in Non-equilibrium Green's Functions IV" conference, 17 August 2009, University of Glasgow, Glasgow (Scotland, UK).
 24. *Time-dependent Green's functions description of nuclear mean-field dynamics*, seminar at Department of "Estructura i Constituents de la Materia", 2 September 2009, Universitat de Barcelona, Barcelona (Catalonia, Spain).
- 2010
25. *Hot neutron matter: Greens functions techniques for dense matter physics*, talk at the "Compstar 2010" Workshop, 14 February 2010, GANIL, Caen (Normandie, France).
 26. *Time-dependent Green's Functions approach to nuclear reactions*, talk at the 6th ANL/MSU/JINA/INT/FRIB Workshop on "Computational forefront in nuclear theory", 25 March 2010, Argonne National Laboratory, Argonne (Illinois, USA).
 27. *Depletion of the nuclear Fermi sea*, talk at the "Reactions and Nucleon Properties in Rare Isotopes" workshop, 6 April 2010, ECT*, Trento (Italy).
 28. *Time-dependent Greens Functions method for nuclear reactions*, talk at the "IoP Nuclear Physics Conference", 21 April 2010, University of Edinburgh, Edinburgh (Scotland, UK).
 29. *Time-dependent Greens Functions method for nuclear reactions*, talk at the "Decoherence in Quantum Dynamical Systems" workshop, 29 April 2010, ECT*, Trento (Italy).
 30. *The equation of state problem: a modern nuclear physics perspective*, talk at General Relativity Group Meeting, 21 May 2010, University of Southampton, Southampton (UK).
 31. *Time-dependent Greens Functions method for nuclear reactions*, seminar of the Theory Group, 16 June 2010, Institut de Physique Nucléaire, Orsay (France).

32. *Role of short range correlations in nuclei*, invited talk at the “International Nuclear Physics Conference”, 8 July 2010, TRIUMF, Vancouver (Canada).
33. *Thermodynamical properties of nuclear matter*, talk at the “Self-Consistent Green’s Functions methods” workshop, 9 September 2010, CEA, Saclay (France).
34. *Time-dependent Greens Functions method for nuclear reactions*, talk at the “V Encuentros de Física Nuclear”, 28 September 2010, El Escorial (Spain).
35. *Time-dependent Greens Functions method for nuclear reactions*, seminar of the Nuclear Physics Group, 10 November 2010, Ghent University, Ghent (Belgium).
- 2011 36. *Role of short range correlations in nuclei*, talk at the “International Conference on Many-body correlations from dilute to dense nuclear systems”, 18 February 2011, Institut Henri Poincaré, Paris (France).
37. *Role of short-range and tensor correlations in nuclei*, talk at the “IoP Nuclear and Particle Physics Divisional Conference”, 5 April 2011, University of Glasgow, Glasgow (Scotland, UK).
38. *The equation of state problem: recent advances in microscopic theories*, talk at the “Compstar 2011” Workshop, 10 May 2011, University of Catania, Catania (Italy).
39. *A century of nuclear physics... and beyond!*, seminar at Department of “Estructura i Constituents de la Matèria”, 25 May 2011, Universitat de Barcelona, Barcelona (Catalonia, Spain).
40. *The equation of state problem: recent advances with two- and three-body forces*, talk at the “Three-Nucleon Forces in Vacuum and in the Medium” workshop, 12 July 2011, ECT*, Trento (Italy).
41. *Time-dependent Green’s function methods for nuclear reactions: mean-field & correlated 1D evolution*, invited talk at the “International Symposium on Non-Equilibrium Dynamics”, 31 August 2011, Heraklion, Crete (Greece).
42. *Initial state preparation for Greens functions simulations of 1D nuclear reactions*, talk at the “Solving the two-time Kadanoff-Baym equations” workshop, 12 October 2011, University of Kiel, Kiel (Germany).
43. *Thermodynamics of nuclear matter: mean-field and beyond*, talk at the “International Workshop on Multifragmentation 2011”, 2 November 2011, GANIL, Caen (Normandie, France).
44. *Time evolution of fermionic systems from first principles*, seminar at the Nuclear Physics Group, 7 December 2011, University of Birmingham, Birmingham (UK).