

**LPTM - Articles dans des revues internationales ou nationales avec comité de lecture**

Année	Thème	Auteur(s)	Titre article	Revue	Pages
2022	A	<a href="#">ALKHATEEB M.</a> , <a href="#">MATZKIN A.</a>	Relativistic spin-0 particle in a box: Bound states, wave packets, and the disappearance of the Klein paradox.	American Journal of Physics 90(4)	297
2022	A	<a href="#">ALKHATEEB M.</a> , <a href="#">MATZKIN A.</a>	Relativistic Bohmian trajectories and Klein-Gordon currents for spin-0 particles.	Found. Phys. 52, 104 (2022)	52-104
2022	A	<a href="#">DEBBICHI M.</a> , <a href="#">SAID H.</a> , <a href="#">GARBOUJ H.</a> , <a href="#">EL HOG S.</a> , <a href="#">DINH V.A.</a>	A new ternary pentagonal monolayer based on Bi with large intrinsic Dzyaloshinskii-Moriya interaction	Journal of Physics D : Volume 55, Number 1	
2022	A	<a href="#">DIEP H.T.</a>	Quantum Spin-Wave Theory for Non-Collinear Spin Structures, a Review .	Symmetry 2022, 14(8)	1716
2022	A	<a href="#">DUPREY Q.</a> , <a href="#">MATZKIN A.</a>	Proposal to observe path superpositions in a double-slit setup.	Phys. Rev. A 105	052231
2022	A	<a href="#">EL HOG S.</a> , <a href="#">KATO F.</a> , <a href="#">HONGO S.</a> , <a href="#">KOIBUCHI H.</a> , <a href="#">DIGUET G.</a> , <a href="#">HUCHIMOTO T.</a> , <a href="#">DIEP H.T.</a>	The stability of 3D skyrmions under mechanical stress studied via Monte Carlo calculations.	Results in Physics 38	105578
2022	A	<a href="#">EL HOG S.</a> , <a href="#">SHARAFULLIN I.F.</a> , <a href="#">DIEP H.T.</a> , <a href="#">GARBOUJ H.</a> , <a href="#">DEBBICHI M.</a> , <a href="#">SAID M.</a>	Frustrated antiferromagnetic triangular lattice with Dzyaloshinskii-Moriya interaction: Ground states, spin waves, skyrmion crystal, phase transition.	Journal of Magnetism and Magnetic Materials 2022-09	169920
2022	A	<a href="#">HONECKER A.</a> , <a href="#">BRENIG W.</a> , <a href="#">TIWARI M.</a> , <a href="#">FEYERHERM R.</a> , <a href="#">BLECKMANN M.</a> , <a href="#">SULLOW S.</a>	Numerical Interchain Mean-Field Theory for the Specific Heat of the Bimetallic Ferromagnetically Coupled Chain Compound MnNi(NO <sub>2</sub> ) <sub>4</sub> (en) <sub>2</sub> (en = Ethylenediamine).	Molecules 27(19)	6546
2022	A	<a href="#">HONECKER A.</a> , <a href="#">BRENIG W.</a> , <a href="#">TIWARI M.</a> , <a href="#">FEYERHERM R.</a> , <a href="#">BLECKMANN M.</a> , <a href="#">SULLOW S.</a>	Numerical Interchain Mean-Field Theory for the Specific Heat of the Bimetallic Ferromagnetically Coupled Chain Compound MnNi(NO <sub>2</sub> ) <sub>4</sub> (en) <sub>2</sub> (en = Ethylenediamine).	Molecules 2022, 27(19), 6546	
2022	A	<a href="#">WEBER L.</a> , <a href="#">HONECKER A.</a> , <a href="#">NORMAND B.</a> , <a href="#">CORBOZ P.</a> , <a href="#">MILA F.</a> , <a href="#">WESSEL S.</a>	Quantum Monte Carlo simulations in the trimer basis: first-order transitions and thermal critical points in frustrated trilayer magnets.	SciPost Phys. 12	054
2022	A	<a href="#">XIA J.</a> , <a href="#">ZHANG X.</a> , <a href="#">TRETIAKOV O.A.</a> , <a href="#">DIEP H.T.</a> , <a href="#">YANG J.</a> , <a href="#">ZHAO G.</a> , <a href="#">EZAWA M.</a> , <a href="#">ZHOU Y.</a> , <a href="#">LIU X.</a>	Bifurcation of a topological skyrmion string.	Phys. Rev. B 105	214402
2022	B/C	<a href="#">AVAN J.</a> , <a href="#">FRAPPAT L.</a> , <a href="#">RAGOUCY E.</a>	Integrable quadratic structures in peakon models.	SciPost Phys. 13	044
2022	B/C	<a href="#">CANTINI L.</a> , <a href="#">ZAHRA A.</a>	Hydrodynamic behavior of the two-TASEP.	J. Phys. A: Math. Theor. 55(30)	305201
2022	B/C	<a href="#">COHEN J.E.</a> , <a href="#">HUILLET T.</a>	Taylor's law for some infinitely divisible probability distributions form population models.	Journal of Statistical Physics 188	33
2022	B/C	<a href="#">COLLURA M.</a> , <a href="#">DE LUCA A.</a> , <a href="#">ROSSINI D.</a> , <a href="#">LEROSE A.</a>	Discrete Time-Crystalline Response Stabilized by Domain-Wall Confinement.	Phys. Rev. X 12	031037
2022	B/C	<a href="#">DE NARDIS J.</a> , <a href="#">DOYON B.</a> , <a href="#">MEDENJAK M.</a> , <a href="#">PANFIL M.</a>	Correlation functions and transport coefficients in generalised hydrodynamics.	J. Stat. Mech.: Th. And Exp.	014002

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2022	B/C	<b>DE NARDIS J., GOPALAKRISHNAN S., VASSEUR R., WARE B.</b>	Subdiffusive hydrodynamics of nearly integrable anisotropic spin chains.	PNAS 119(34)	e2202823119
2022	B/C	<b>DEL VECCHIO DEL VECCHIO G., DE LUCA A., BASTIANELLO A.</b>	Transport through interacting defects and lack of thermalisation.	SciPost Phys. 12	060
2022	B/C	<b>DUNLOP F., MARDIN A.</b>	Galton-Watson trees with first ancestor interaction.	Journal of Statistical Physics vol 189, Article number: 38	
2022	B/C	<b>FERNANDEZ TOLEDANO J.C., FAGNIART C., CONTI G., DE CONINCK J., DUNLOP F., HUILLET T.</b>	Optimizing fog harvesting by biomimicry.	Phys. Rev. Fluids 7	033604
2022	B/C	<b>HUILLET Th.</b>	Random walks facing binomial catastrophes: from fixed to random survival probability.	Journal of Statistics: Advances in Theory and Applications 27(1)	
2022	B/C	<b>HUILLET Th.</b>	Chance Mechanisms Involving Sibuya Distribution and its Relatives.	Sankhya B: the Indian Journal of Statistics	
2022	B/C	<b>MOGES H.T., MANOS T., SKOKOS C.</b>	Anomalous diffusion in single and coupled standard maps with extensive chaotic phase spaces.	Physica D: Nonlinear Phenomena	133120
2022	B/C	<b>PATSIS P.A., MANOS T., CHAVES-VELASQUEZ L., SKOKOS C., PUERARI I.</b>	Chaoticity in the vicinity of complex unstable periodic orbits in galactic type potentials.	Physica D: Nonlinear Phenomena	133050
2022	C	<b>GONCALVES B., HUILLET T., LOCHERBACH E.</b>	On decay-surge population models.	Advances in Applied Probability	1 - 29
2022	D	<b>CHEN L., LEE C.F., MAITRA A., TONER J.</b>	Incompressible polar active fluids with quenched disorder in dimensions $d > 2$ .	Phys. Rev. Lett. 129, 198001	
2022	D	<b>CHEN L., LEE C.F., MAITRA A., TONER J.</b>	Packed swarms on dirt: two dimensional incompressible flocks with quenched and annealed disorder.	Phys. Rev. Lett. 129, 188004	
2022	D	<b>CHEN L., LEE C.F., MAITRA A., TONER J.</b>	Hydrodynamic theory of two-dimensional incompressible polar active fluids with quenched and annealed disorder.	Phys. Rev. E 106, 044608	
2022	D	<b>CLARK A.G., MAITRA A., JACQUES C., BERGERT M., PEREZ-GONZALEZ C., SIMON A., LEDERER L., DIZ-MUNOZ A., TREPAT X., VOITURIEZ R., MATIC VIGNJEVIC D.</b>	Self-generated gradients steer collective migration on viscoelastic collagen networks.	Nature Materials 2022	
2022	D	<b>DEL JUNCO C., ESTEVEZ-TORRES A., MAITRA A.</b>	Front speed and pattern selection of a propagating chemical front in an active fluid.	Phys. Rev. E 105	014602
2022	D	<b>DI VOLO M., SEGNERI M., GOLDOBIN D., POLITI A., TORCINI A.</b>	Coherent oscillations in balanced neural networks driven by endogenous fluctuations.	Chaos 32	023120

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2022	D	<b>GOMEZ-NAVA L., BON R., PERUANI F.</b>	Intermittent collective motion in sheep results from alternating the role of leader and follower	Nature Physics (2022)	
2022	D	<b>KAUFMAN M., KAUFMAN S., DIEP H.T.</b>	Statistical Mechanics of Political Polarization.	Entropy 2022, 24(9)	1262
2022	D	<b>MANOS T., SKOKOS C., PATSIS P.</b>	Orbit evolution in growing stellar bars: bar-supporting orbits at the vertical ILR region.	Monthly Notices of the Royal Astronomical Society 509(2)	
2022	D	<b>PAOLINI G., CISZAK M., MARINO F., OLMI S., TORCINI A.</b>	Collective excitability in highly diluted random networks of oscillators	Chaos 32, 103108 (2022)	
2022	D	<b>SARFATI G., MAITRA A., VOITURIEZ R., GALAS J-C., ESTEVEZ-TORRES A.</b>	Crosslinking and depletion determine spatial instabilities in cytoskeletal active matter.	Soft Matter 2022(18)	3793-3800
2022	D	<b>SCHAWÉ H., HERNANDEZ L.</b>	Higher order interactions destroy phase transitions in Deffuant opinion dynamics model.	Communications Physics 5	32
2022	D	<b>SINGH P., KUNDU A., MAJUMDAR S.N., SCHAWÉ H.</b>	Mean area of the convex hull of a run and tumble particle in two dimensions.	J. Phys. A: Math. Theor.	
2022	D	<b>TRAN Q.D., GALIANA E., THOMEN P., COHEN C., ORANGE F., PERUANI F., NOBLIN X.</b>	Coordination of two opposite flagella allows high-speed swimming and active turning of individual zoospores.	eLife 11:e71227	
2021	A	<b>ALKHATEEB M., GUTIERREZ DE LA CAL X., PONS M., SOKOLOVSKI D., MATZKIN A.</b>	Relativistic time-dependent quantum dynamics across supercritical barriers for Klein-Gordon and Dirac particles.	Phys. Rev. A	
2021	A	<b>BAILLY-REYRE A., DIEP H.T.</b>	Vortex structure in magnetic nanodots: Dipolar interaction, mobile spin model, phase transition and melting.	Journal of Magnetism and Magnetic Materials 528	167813
2021	A	<b>BENINI L., NALDESI P., RÖMER R.A., ROSCILDE T.</b>	Loschmidt echo singularities as dynamical signatures of strongly localized phases.	New Journal of Physics 23	023030
2021	A	<b>CHEPELIANSKII A.D., PAPOULAR D., KONSTANTINOV D., BOUCHIAT H., KONO K.</b>	Coupled pair of one- and two-dimensional magnetoplasmons on electrons on helium.	Phys. Rev. B 103(7)	075420
2021	A	<b>EL HOG S., KATO F., KOIBUCHI H., DIEP H.T.</b>	Finsler geometry modeling and Monte Carlo study of skyrmion shape deformation by uniaxial stress.	Phys. Rev. B 104	024402
2021	A	<b>ISMAEL A., ALKHATEEB M., CHAMOUN N., LASHIN E.I.</b>	Texture of single vanishing subtrace in neutrino mass matrix.	Phys. Rev. D 103	035020
2021	A	<b>ISMAEL A., LASHIN E.I., ALKHATEEB M., CHAMOUN N.</b>	Texture of one equality in neutrino mass matrix.	Nuclear Physics B 971	115541
2021	A	<b>KHABTHANI J.J., MISSAOUJ A., MAYOU D., TRAMBLY DE LAISSARDIERE G.</b>	Electronic transport properties monitored by selective functionalization in Bernal bilayer graphene.	Phys. Rev. B 104	245125

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2021	A	<b>LARREA JIMENEZ J., CRONE S.P.G., FOGH E., ZAYED E., LORTZ R., POMJAKUSHINA E., CONDER K., LAÜCHLI A. M., WEBER L., WESSEL S., HONECKER A., NORMAND B., RÜEGG Ch., CORBOZ P., RONNOW M., MILA F.</b>	A quantum magnetic analogue to the critical point of water.	Nature 592	370-375
2021	A	<b>LUSTOSA F.B., COLIN S., PEREZ BERGLIAFFA S.E.</b>	Quantum relaxation in a system of harmonic oscillators with time-dependent coupling.	Proc. R. Soc. A.477	20200606
2021	A	<b>MESPLE F. MISSAQUI A., CEA T., HUDER L., TRAMBLY DE LAISSARDIERE G., GUINEA F., CHAPELIER C., RENARD V.T.</b>	Heterostrain Determines Flat Bands in Magic-Angle Twisted Graphene Layers.	Phys. Rev. Lett. 127	126405
2021	A	<b>SCHLUTER H., GAYK F., SCHMIDT H.J., HONECKER A., SCHNACK J.</b>	Accuracy of the typicality approach using Chebyshev polynomials.	Zeitschrift für Naturforschung A 76(9)	823-834
2021	A	<b>SCOQUART T., LARRE P.E., DELANDE D., CHERRORET N.</b>	Weakly interacting disordered Bose gases out of equilibrium: From multiple scattering to superfluidity.	Europhysics Letters 132(6)	66001
2021	A	<b>SOKOLOVSKI D., MATZKIN A.</b>	Wigner's Friend Scenarios and the Internal Consistency of Standard Quantum Mechanics .	Entropy 23(9)	1186
2021	A	<b>VAHEDI J., PETERS R.</b>	Edge magnetic properties of black phosphorene nanoribbons.	Phys. Rev. B 103(7)	075108
2021	A	<b>VAHEDI J., PETERS R., MISSAQUI A., HONECKER A. TRAMBLY DE LAISSARDIERE G.</b>	Magnetism of magic-angle twisted bilayer graphene.	SciPost Phys. 11	083
2021	A	<b>ZHANG X., XIA J., EZAWA M., TRETIAKOV O.A., DIEP H.T., ZHAO G., LIU X., ZHOU Y.</b>	A frustrated bimeronium: Static structure and dynamics.	Appl. Phys. Lett. 118	052411
2021	A	<b>ZHANG X., XIA J., TRETIAKOV O.A., DIEP H.T., ZHAO G., YANG J., ZHOU Y., EZAWA M. LIU X.</b>	Dynamic transformation between a skyrmion string and a bimeron string in a layered frustrated system.	Phys. Rev. B 104	L220406
2021	A,B/C	<b>DURNIN J., DE LUCA A., DE NARDIS J., DOYON B.</b>	Diffusive hydrodynamics of inhomogenous Hamiltonians.	J. Phys. A: Math. Theor. 54(49)	494001
2021	B/C	<b>BASTIANELLO A., DE LUCA A., VASSEUR R.</b>	Hydrodynamics of weak integrability breaking.	J. Stat. Mech. 2021	114003
2021	B/C	<b>BONNEMAIN T., GOBRON T. ULLMO D.</b>	Lax connection and conserved quantities of quadratic mean field games	J. Math. Phys. 62	083302

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2021	B/C	<b>CEBEIRO J., TARPAU C., MORVIDONE M., RUBIO D., NGUYEN M.K.</b>	On a three-dimensional Compton scattering tomography system with fixed source.	Inverse problems 37(5)	054001
2021	B/C	<b>CHAN A., DE LUCA A., CHALKER J.T.</b>	Spectral Lyapunov exponents in chaotic and localized many-body quantum systems.	Phys. Rev. Research 3	023118
2021	B/C	<b>DE CONINCK J., DUNLOP F., HUILLET T.</b>	Composite states of wetting.	Physica A: Statistical Mechanics and its Applications 571	125823
2021	B/C	<b>DE NARDIS J., GOPALAKRISHNAN S., VASSEUR R., WARE B.</b>	Stability of Superdiffusion in Nearly Integrable Spin Chains.	Phys. Rev. Lett. 127	057201
2021	B/C	<b>GONCALVES B., HUILLET T.</b>	A generating function approach to Markov chains undergoing binomial catastrophes.	J. Stat. Mech. 2021	033402
2021	B/C	<b>GONCALVES B., HUILLET T., LOCHERBACH E.</b>	On population growth with catastrophes.	Stochastic Models	1532-4214
2021	B/C	<b>GONCALVES B., HUILLET Th.</b>	Keeping random walks safe from extinction and overpopulation in the presence of life-taking disasters.	Mathematical Population Studies 28	1976476
2021	B/C	<b>HUILLET Th., MARTINEZ S.</b>	Revisiting John Lamperti's maximal branching process.	Stochastics	
2021	B/C	<b>HUILLET Th., MOHLE M.</b>	Asymptotic genealogies for a class of generalized Wright-Fisher models.	Modern Stochastics: Theory and Applications 9(1)	1-27
2021	B/C	<b>RAHMANI P., PERUANI F., ROMANCZUK P.</b>	Topological flocking models in spatially heterogeneous environments.	Communications Physics 4	206
2021	B/C	<b>TARPAU C., CEBEIRO J., ROLLET G., NGUYEN M.K., DUMAS L.</b>	Analytical reconstruction formula with efficient implementation for a modality of Compton scattering tomography with translational geometry.	Inverse Problems & Imaging	2021075
2021	B/C	<b>TRUONG T.T.</b>	Moyal equation—Wigner distribution functions for anharmonic oscillators.	J. Math. Phys. 62	102103
2021	D	<b>BI H., DI VOLO M., TORCINI A.</b>	Asynchronous and Coherent Dynamics in Balanced Excitatory-Inhibitory Spiking Networks.	Front. Syst. Neurosci. 15	135
2021	D	<b>CHEPELIANSKII A.D., MAJUMDAR S.N., SCHAWÉ H., TRIZAC E.</b>	One-dimensional Monte Carlo dynamics at zero temperature.	J. Phys. A: Math. Theor. 54(48)	485001
2021	D	<b>CHEPIZHKO A., SAINTILLAN D., PERUANI F.</b>	Revisiting the emergence of order in active matter.	Soft Matter 2021, Advance Article	
2021	D	<b>CISZAK M., OLMÍ S., INNOCENTI G., TORCINI A., MARINO F.</b>	Collective canard explosions of globally-coupled rotators with adaptive coupling.	Chaos, Solitons & Fractals 153(1)	111592

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2021	D	<b>DEAN D.S., MAJUMDAR S.N., SCHAWÉ H.</b>	Position distribution in a generalized run-and-tumble process.	Phys. Rev. E 103	012130
2021	D	<b>DI VOLO M., DESTEXHE A.</b>	Optimal responsiveness and information flow in networks of heterogeneous neurons.	Scientific Reports 11	17611
2021	D	<b>DIEP H.T., DESGRANGES G.</b>	Dynamics of the price behavior in stock markets: A statistical physics approach.	Physica A 570	125813
2021	D	<b>GANDICA Y., LANSING J.S., CHUNG N.N., THURNER S., CHEW L.Y.</b>	Bali's Ancient Rice Terraces: A Hamiltonian Approach.	Phys. Rev. Lett. 127	168301
2021	D	<b>GASCUEL H., PERUANI F., BON R.</b>	Identifying interaction neighbours in animal groups.	Animal Behaviour 174	97-104
2021	D	<b>GOLDOBIN D.S., DI VOLO M., TORCINI A.</b>	Reduction Methodology for Fluctuation Driven Population Dynamics.	Phys. Rev. Lett. 127	038301
2021	D	<b>GOMEZ NAVA L., GOUDON T., PERUANI F.</b>	Kinetic and macroscopic models for active particles exploring complex environments with an internal navigation control system.	Mathematical Models and Methods in Applied Sciences 31(08)	1691-1717
2021	D	<b>MAJUMDAR S.N., MORI F., SCHAWÉ H., SCHEHR G.</b>	Mean perimeter and area of the convex hull of a planar Brownian motion in the presence of resetting.	Phys. Rev. E 103	022135
2021	D	<b>MANOS T., DIAZ PIER S., TASS P.A.</b>	Long-term desynchronization by coordinated reset stimulation in a neural network model with synaptic and structural plasticity.	Frontiers in Physiology	
2021	D	<b>OTTE S., PEREZ-IPINA E., POINTER-BRES R., CZERUCKA D., PERUANI F.</b>	Statistics of pathogenic bacteria in the search of host cells.	Nature Communications 12	1990
2021	D	<b>PERRIER R., GANDICA Y., HERNANDEZ L.</b>	The consequences of hesitation: Axelrod model with intrinsic noise.	PLoS ONE 16(11)	e0259295
2021	D	<b>POPOVYCH O.V., JUNG K., MANOS T., DIAZ PIER S., HOFFSTAEDTER F., SCHREIBER J., THOMAS YEO B.T., EICKHOFF S.</b>	Inter-subject and inter-parcellation variability of resting-state whole-brain dynamical modeling.	NeuroImage 236	118201
2021	D	<b>REYERO T.M., BEIRO M.G., ALVAREZ-HAMELIN J.I., HERNANDEZ L., KOTZINOS D.</b>	Evolution of the political opinion landscape during electoral periods.	EPJ data Science 10	31
2021	D	<b>RÖMER R.A., RÖMER N.S., WALLIS A.K.</b>	Flexibility and mobility of SARS-CoV-2-related protein structures.	Scientific Reports 11	4257
2021	D	<b>SCHAWÉ H., FONTAINE S., HERNANDEZ L.</b>	When network bridges foster consensus. Bounded confidence models in networked societies.	Phys. Rev. Research 3	023208

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2021	D	<b>STUCCHI M., PITTORINO F., DI VOLO M., VEZZANI A., BURIONI R.</b>	Order symmetry breaking and broad distribution of events in spiking neural networks with continuous membrane potential.	Chaos, Solitons and Fractals 147	110946
2020	A	<b>ASHOURI A., MAHDAVIFAR S., MISGUICH G., VAHEDI J.</b>	Concurrence and Quantum Discord in the Eigenstates of Chaotic and Integrable Spin Chains.	Annalen der Physik 532(8)	1900515
2020	A	<b>BAILLY-REYRE A., DIEP H.T.</b>	Nematic and Smectic Phases: Dynamics and Phase Transition.	Symmetry 2020(12)	1574
2020	A	<b>BRUNE M., PAPOULAR D.</b>	Evaporative cooling of a Rydberg atom chain to near its ground state.	Phys. Rev. Research 2	023014
2020	A	<b>CAPPONI S., FROMHOLZ P., LECHEMINANT P., TOTSUKA K.</b>	Symmetry-protected topological phases in a two-leg SU(N) spin ladder with unequal spins.	Phys. Rev. B 101	195121
2020	A	<b>COLIN S., MATZKIN A.</b>	Non-locality and time-dependent boundary conditions: A Klein-Gordon perspective.	Europhysics Letters 130(5)	50003
2020	A	<b>COLLURA M., DE LUCA A., CALABRESE P., DUBAIL J.</b>	Domain wall melting in the spin-1/2 XXZ spin chain: Emergent Luttinger liquid with a fractal quasiparticle charge.	Phys. Rev. B 102	180409
2020	A	<b>DE LUCA A., BASTIANELLO A.</b>	Entanglement front generated by an impurity traveling in an isolated many-body quantum system.	Phys. Rev. B 101	085139
2020	A	<b>FAIZI NAMARVAR O., MISSAOUI A., MAGAUD L., MAYOU D., TRAMBLY DE LAISSARDIERE G.</b>	Electronic structure and quantum transport in twisted bilayer graphene with resonant scatterers.	Phys. Rev. B 101	245407
2020	A	<b>FONTAINE Q., LARRE P-E., LERARIO G., BIENAIME T., PIGEON S., FACCIO D., CARUSOTTO L., GIACOBINO E., BRAMATI A., GLORIEUX Q.</b>	Interferences between Bogoliubov excitations and their impact on the evidence of superfluidity in a paraxial fluid of light.	Phys. Rev. Research 2(4)	043297
2020	A	<b>FROMHOLZ P., LECHEMINANT P.</b>	Symmetry-protected topological phases in the SU(N) Heisenberg spin chain: A Majorana fermion approach.	Phys. Rev. B 102	94410
2020	A	<b>GUTIERREZ DE LA CAL X., ALKHATEEB M., PONS M. MATZKIN A., SOKOLOVSKI D.</b>	Klein paradox for bosons, wave packets and negative tunnelling times.	Scientific Reports 10(1)	19225
2020	A	<b>HONECKER A., RICHTER J., SCHNACK J., WIETECK A.</b>	Loop-gas description of the localized-magnon states on the kagome lattice with open boundary conditions.	Condensed Matter Physics 23(4)	43712
2020	A	<b>KUNIBA A., MISGUICH G., PASQUIER V.</b>	Generalized hydrodynamics in box-ball system.	J. Phys. A: Math. Theor. 53(40)	404001
2020	A	<b>LACROIX A., TRAMBLY DE LAISSARDIERE G., QUEMERAS P., JULIEN J-P., MAYOU D.</b>	Modeling of Electronic Mobilities in Halide Perovskites: Adiabatic Quantum Localization Scenario.	Phys. Rev. Lett. 124	196601

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2020	A	<b>LANDA H., SCHIRO M., MISGUICH G.</b>	Multistability of Driven-Dissipative Quantum Spins.	Phys. Rev. Lett. 124	043601
2020	A	<b>LANDA H., SCHIRO M., MISGUICH G.</b>	Correlation-induced steady states and limit cycles in driven dissipative quantum systems.	Phys. Rev. B 102	064301
2020	A	<b>LIU J., MAO X., ZHONG J., RÖMER R.A.</b>	Localization, phases, and transitions in three-dimensional extended Lieb lattices.	Phys. Rev. B 102	174207
2020	A	<b>MAO X., LIU J., ZHONG J., RÖMER R.A.</b>	Disorder effects in the two-dimensional Lieb lattice and its extensions.	Phys. E Low-Dimensional Syst. Nanostructures 124	114340
2020	A	<b>MATZKIN A.</b>	Weak values from path integrals.	Phys. Rev. Research 2	032048
2020	A	<b>MATZKIN A., SOKOLOVSKI D.</b>	Wigner's friend, Feynman's paths and material records.	Europhysics Letters 131(4) <i>Editor's Suggestion</i>	40001
2020	A	<b>MATZKIN A., SOKOLOVSKI D.</b>	Wigner Friend scenarios with non-invasive weak measurements.	Phys. Rev. A 102	062204
2020	A	<b>MISGUICH G., JOLICOEUR T., MIZUSAKI T.</b>	Bubble phase at $v=1/3$ for a spinless hollow-core interaction.	Phys. Rev. B 102	245107
2020	A	<b>OSWALD J., RÖMER R.A.</b>	Microscopic details of stripes and bubbles in the quantum Hall regime.	Phys. Rev. B 102	121305
2020	A	<b>PHUNG T.T., PETERS R., HONECKER A., TRAMBLY DE LAISSARDIERE G., VAHEDI J.</b>	Spin-caloritronic transport in hexagonal graphene nanoflakes.	Phys. Rev. B 102	035160
2020	A	<b>RACZKOWSKI M., PETERS R., PHUNG T.T., TAKEMORI N., ASSAAD F.F., HONECKER A., VAHEDI J.</b>	Hubbard model on the honeycomb lattice: From static and dynamical mean-field theories to lattice quantum Monte Carlo simulations.	Phys. Rev. B 101	125103
2020	A	<b>SCHNACK J., SCHULENBURG J., HONECKER A., RICHTER J.</b>	Magnon crystallization in the kagome lattice antiferromagnet.	Phys. Rev. Lett. 125	117207
2020	A	<b>SHARAFULLIN I. F., NUGUMANOV A. G., NUGAEVA N. M., DIEP H. T.</b>	Skyrmions and Phase Transitions in a Ferromagnetic/Ferroelectric Superlattices with Triangular Lattice.	IEEE Magnetism Letters 11	1-5
2020	A	<b>SHARAFULLIN I., DIEP H.T.</b>	Skyrmion Crystal and Phase Transition in Magneto-Ferroelectric Superlattices: Dzyaloshinskii-Moriya Interaction in a Frustrated J1 - J2 Model.	Symmetry 2020, 12(1)	26
2020	A	<b>SHARAFULLIN I., DIEP H.T.</b>	Elementary excitations in anisotropic nanofilms of multiferroics with competing interactions at the interface.	Letters on Materials 10(2)	211-216



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2020	A	<b>SHARAFULLIN I.F., NUGUMANOV A.G., YULDASHEVA A.R., NUGAEVA N.M., KHARRASOV M.Kh., <u>DIET</u> H.T.</b>	Monte Carlo study of phase transitions and Skyrmion crystal in magneto-antiferroelectric heterostructures with triangular lattice.	Chelyabinsk Physical and Mathematical Journal 2020(5), iss. 2	202-210
2020	A	<b>THANH NGO V., NGUYEN P.T., <u>DIET</u> H.T.</b>	Dynamics leading to Smectic Phase and Nature of Multiple Partial Phase Transitions at Low Temperatures by Wang-Landau Method.	Entropy 22(11)	1232
2020	A	<b><u>VENKATESWARLU S., HONECKER A., TRAMBLY DE LAISSARDIERE G.</u></b>	Electronic localization in twisted bilayer MoS2 with small rotation angle.	Phys. Rev. B 102(8)	081103
2020	A	<b>WAEGELL M., <u>MATZKIN A.</u></b>	Nonlocal Interferences Induced by the Phase of the Wavefunction for a Particle in a Cavity with Moving Boundaries.	Quantum Reports 2(4)	514-528
2020	A	<b>XIA J., ZHANG X., EZAWA M., TRETIAKOV O.A., HOU Z., WANG W., ZHAO G., LIU X., <u>DIET</u> H.T., ZHOU Y.</b>	Current-driven skyrmionium in a frustrated magnetic system.	Appl. Phys. Lett. 117	012403
2020	B	<b><u>AVAN J., FRAPPAT L., RAGOUCY E.</u></b>	Algebraic structure of classical integrability for complex sine-Gordon.	SciPost Phys. 8	033
2020	B	<b><u>AVAN J., FRAPPAT L., RAGOUCY E.</u></b>	On abelianity lines in elliptic W-algebras.	SIGMA 16	094
2020	B	<b>BASTIANELLO A., <u>DE LUCA A., DOYON B., DE NARDIS J.</u></b>	Thermalization of a Trapped One-Dimensional Bose Gas via Diffusion.	Phys. Rev. Lett. 125	240604
2020	B	<b>BASTIANELLO A., <u>DE NARDIS J., DE LUCA A.</u></b>	Generalised hydrodynamics with dephasing noise.	Phys. Rev. B 102 <i>Editor's Suggestion</i>	161110
2020	B	<b><u>CANTINI L., COLOMO F., PRONKO A.G.</u></b>	Integral formulas and antisymmetrization relations for the six-vertex model.	Ann. Henri Poincaré 21	865-884
2020	B	<b><u>DEL VECCHIO DEL VECCHIO G., BASTIANELLO A., DE LUCA A., MUSSARDO G.</u></b>	Exact out-of-equilibrium steady states in the semiclassical limit of the interacting Bose gas.	SciPost Phys. 9	002
2020	B	<b>MORIN-DUCHESNE A., HAGENDORF C., <u>CANTINI L.</u></b>	Boundary emptiness formation probabilities in the six-vertex model at $\Delta = -1/2$ .	J. Phys. A: Math. Theor. 53	255202
2020	B	<b><u>TARPAU C., CEBEIRO J., MORVIDONE M.A., NGUYEN M.K.</u></b>	A New Concept of Compton Scattering Tomography and the Development of the Corresponding Circular Radon Transform.	IEEE Transactions on Radiation and Plasma Medical Sciences 4(4)	433-440
2020	B	<b><u>TARPAU C., CEBEIRO J., NGUYEN M.K., ROLLET G., MORVIDONE M.A.</u></b>	Analytic inversion of a Radon transform on double circular arcs with applications in Compton Scattering Tomography.	IEEE Transactions on Computational Imaging (Early Access)	1-1

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2020	B	<b>TARPAU C., NGUYEN M.K.</b>	Compton scattering imaging system with two scanning configurations.	J. of Electronic Imaging 29(1)	013005
2020	B/C	<b>TRUONG T.T.</b>	Function Reconstruction from Reflection Symmetric Radon Data .	Symmetry 2020 12(6)	956
2020	C	<b>BONNEMAIN T., GOBRON T. ULLMO D.</b>	Schrödinger approach to Mean Field Games with negative coordination.	SciPost Phys. 9	059
2020	C	<b>BONNEMAIN T., GOBRON T., ULLMO D.</b>	Universal behavior in non stationary Mean Field Games.	Physics Letters A 384(23)	126608
2020	C	<b>DE CONINCK J., FERNANDEZ-TOLEDANO J.C., DUNLOP F., HUILLET T., SODJI A.</b>	Shape of pendent droplets under a tilted surface.	Physica D: Nonlinear Phenomena	132765
2020	C	<b>DUNLOP F., FATOLLAHI A.H., HAJIRAHIMI M., HUILLET T.</b>	Identities for droplets with circular footprint on tilted surfaces.	Royal Society Open Science 7(11)	201534
2020	C	<b>GONCALVES B., HUILLET T.</b>	Scaling features of two special Markov chains involving total disasters.	Journal of Statistical Physics 178	499-531
2020	C	<b>HUILLET T.</b>	On Random Population Growth Punctuated by Geometric Catastrophic Events.	Contemporary Mathematics 1(5)	471
2020	C	<b>HUILLET T.</b>	Statistics of Branched Populations Split into Different Types.	Applications and Applied Mathematics 15(2)	764-800
2020	C	<b>HUILLET Th.</b>	On new mechanisms leading to heavy-tailed distributions related to the ones of Yule-Simon.	Indian J. Pure and Appl. Math. 51(1)	
2020	C	<b>HUILLET Th., MARTINEZ S.</b>	Truncation in Duality and Intertwining Kernels.	Markov Processes Relat. Fields 26	423-445
2020	C	<b>KOUKIOU F.</b>	Freezing and low temperature entropy: The case of mean-field Gaussian model.	Journal of Mathematical Physics 61	113302
2020	D	<b>ADAM I., CECCHINI G., FANELLI D., KREUZ T., LIVI R., DI VOLO M., ALLEGRA MASCARO A.L., CONTI E., SCAGLIONE A., SILVESTRI L., SAVERIO PAVONE F.</b>	Inferring network structure and local dynamics from neuronal patterns with quenched disorder.	Chaos, Solitons & Fractals 140	110235
2020	D	<b>BI H., SEGNERI M., DI VOLO M., TORCINI A.</b>	Coexistence of fast and slow gamma oscillations in one population of inhibitory spiking neurons.	Phys. Rev. Research 2	013042

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2020	D	<b>CARLU M., CHEHAB O., DALLA PORTA L., DEPANNEMAECCKER D., HERICE C., JEDYNAK M., KOKSAL ERSOZ E., MURATORE P., SOUIHEL S., CAPONE C., ZERLAUT Y, DESTEXHE A., DI VOLO M.</b>	A mean-field approach to the dynamics of networks of complex neurons, from nonlinear Integrate-and-Fire to Hodgkin-Huxley models.	Journal of Neurophysiology 123(3)	1042-1051
2020	D	<b>CENI A., OLMI S., TORCINI A., ANGULO-GARCIA D.</b>	Cross frequency coupling in next generation inhibitory neural mass models .	Chaos 30	053121
2020	D	<b>CISZAK M., MARINO F., TORCINI A., OLMI S.</b>	Emergent excitability in populations of nonexcitable units.	Phys. Rev. E 102(5)	050201
2020	D	<b>COQUAND O., ESSAFI K., KOWNACKI J.P., MOUHANNA D.</b>	Universal behaviors in the wrinkling transition of disordered membranes.	Phys. Rev. E 101	042602
2020	D	<b>GANDICA Y., BEREAU S., GNABO J.Y.</b>	A multilevel analysis of financial institutions' systemic exposure from local and system-wide information.	Scientific Reports 10	17657
2020	D	<b>GROSSMANN R., ARANSON I.S., PERUANI F.</b>	A particle-field approach bridges phase separation and collective motion in active matter.	Nature Communications 11	5365
2020	D	<b>HARTMANN A.K., MAJUMDAR S.N., SCHAWÉ H., SCHEHR G.</b>	The convex hull of the run-and-tumble particle in a plane.	J. Stat. Mech. 2020(5)	053401
2020	D	<b>HERNANDEZ L., SCHAWÉ H.</b>	Collective effects of the cost of opinion change.	Scientific reports 10	13825
2020	D	<b>HOLME P., GANDICA Y.</b>	The free and freer XY models.	Phys. Rev. E 101	032311
2020	D	<b>KAUFMAN M. , KAUFMAN S., DIEP H.T.</b>	Multi-Group Conflict Paths: Anticipatory Scenarios of Attitudes and Outcomes.	Journal of policy and complex systems 5(2)	5-21
2020	D	<b>KAUFMAN M., DIEP H.T., KAUFMAN S.</b>	Sociophysics Analysis Of Multi-Group Conflicts.	Entropy 2020, 22	214
2020	D	<b>KRABBE P., SCHAWÉ H., HARTMANN A.K.</b>	Number of longest increasing subsequences.	Phys. Rev. E 101	062109
2020	D	<b>MOGES H., MANOS T., SKOKOS C.</b>	On the behavior of the Generalized Alignment Index (GALI) method for regular motion in multidimensional Hamiltonian systems.	Nonlinear Phenomena in Complex Systems 23(2)	153-164
2020	D	<b>PAYRATO-BORRAS C., HERNANDEZ L., MORENO Y.</b>	Measuring nestedness: A comparative study of the performance of different metrics.	Ecology and Evolution 10(21)	11906-11921
2020	D	<b>RETUREAU R., FOLLOPE N., ELBAHNSI A., OGUEY C., HARTMANN B.</b>	A dynamic view of DNA structure within the nucleosome: Biological implications.	Journal of Structural Biology 211(1)	107511

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2020	D	<b>RICARDO G. MENDOCA J., SCHAWÉ H., HARTMANN A.K.</b>	On the asymptotic behavior of the length of the longest increasing subsequences of random walks.	Phys. Rev. E 101(3)	032102
2020	D	<b>SCHAWÉ H., HARTMANN A.</b>	Large deviations of connected components in the stochastic block model.	Phys. Rev. E 102(5)	052108
2020	D	<b>SCHAWÉ H., HARTMANN A.K.</b>	Large deviations of a random walk model with emerging territories.	Phys. Rev. E 102	062141
2020	D	<b>SCHAWÉ H., HERNANDEZ L.</b>	When open mindedness hinders consensus.	Scientific Reports 10	8273
2020	D	<b>SEGNERI M., BI H., OLMI S., TORCINI A.</b>	Theta-nested gamma oscillations in next generation neural mass models.	Frontiers in Computational Neuroscience 14	47
2020	D	<b>TAHER H., TORCINI A., OLMI S.</b>	Exact neural mass model for synaptic-based working memory.	PLOS Computational Biology 16(12)	e1008533
2020	D	<b>ULLNER E., POLITI A., TORCINI A.</b>	Quantitative and qualitative analysis of asynchronous neural activity.	Phys. Rev. Research 2	023103
2019	A	<b>BIDZHIEV K., MISGUICH G., SALEUR H.</b>	Out-of-equilibrium transport in the interacting resonant level model: Surprising relevance of the boundary sine-Gordon model.	Phys. Rev. B 100	075157
2019	A	<b>BIELLA A., COLLURA M., ROSSINI D., DE LUCA A., MAZZA L.</b>	Ballistic transport and boundary resistances in inhomogeneous quantum spin chains.	Nature Communications 10	4820
2019	A	<b>DIEP H.T.</b>	Phase Transition in Frustrated Magnetic Thin Film - Physics at Phase Boundaries.	Entropy 21(2)	175
2019	A	<b>EL HOG S., KATO F., KOIBUCHI H., DIEP H.T.</b>	Skyrmions on 2d elastic surfaces with fixed boundary frames.	J.M.M.	166095
2019	A	<b>FRIEDMAN A.J., CHAN A., DE LUCA A., CHALKER J.T.</b>	Spectral statistics and many-body quantum chaos with conserved charge.	Phys. Rev. Lett. 123	210603
2019	A	<b>FROMHOLZ P., CAPPONI S., LECHEMINANT P., PAPOULAR D., TOTSUKA K.</b>	Haldane phases with ultracold fermionic atoms in double-well optical lattices.	Phys. Rev. B 99	054414
2019	A	<b>GHASSEN J., KHABTHANI J., TRAMBLY DE LAISSARDIERE G., MAYOU D.</b>	Quantum localization and electronic transport in covalently functionalized carbon nanotubes.	J. Phys: Condens. Matter 32(11)	115301
2019	A	<b>MATZKIN A.</b>	Weak Values and Quantum Properties.	Foundations of Physics 49(3)	298-316
2019	A	<b>MIRMASOUDI F., AHADPOUR S., VAHEDI J., MAHDAVIFAR S.</b>	The Loschmidt-echo dynamics in a quantum chaos model.	Physica Scripta 94(5)	055207

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2019	A	<b>MISGUICH G., PAVLOFF N., PASQUIER V.</b>	Domain wall problem in the quantum XXZ chain and semiclassical behavior close to the isotropic point.	SciPost Phys. 7	025
2019	A	<b>MISSAOU A., KHABTHANI J.J., TRAMBLY DE LAISSARDIERE G., MAYOU D.</b>	Two-dimensional electronic transport in rubrene: the impact of inter-chain coupling.	Entropy 21(3)	233
2019	A	<b>SHARAFULLIN I.F., KHARRASOV M.Kh., DIEP H.T.</b>	Dzyaloshinskii-Moriya interaction in magnetoferroelectric superlattices: Spin waves and skyrmions.	Phys. Rev. B99(21)	214420
2019	A	<b>VACCARELLI O., HONECKER A., GIURA P., BENEUT K., FAK B., ROUSSE G., RADTKE G.</b>	Triplet excitations in the frustrated spin ladder Li2Cu2O(SO4)2.	Phys. Rev. B 99	064416
2019	A	<b>WIETEK A., CORBOZ P., WESSEL S., NORMAND B., MILA F., HONECKER A.</b>	Thermodynamic properties of the Shastry-Sutherland model throughout the dimer-product phase.	Phys. Rev. Research 1	033038
2019	B	<b>AVAN J., FRAPPAT L., RAGOUCY E.</b>	Elliptic deformation of WN-algebras.	SciPost 6(5)	054
2019	B	<b>TRUONG T.T., NGUYEN M.K.</b>	Compton scatter tomography in annular domains.	Inverse Problems 35(5)	054005
2019	C	<b>BONNEMAIN T., ULLMO D.</b>	Mean field games in the weak noise limit : A WKB approach to the Fokker-Planck equation.	Physica A: Stat. Mech. and its Appl. 523	310-325
2019	C	<b>HUILLET Th.</b>	The height of the latest common ancestor of two randomly chosen leaves from a (sub-)critical Galton-Watson tree.	Advances in Applied Mathematics 106	28-36
2019	C	<b>HUILLET Th.</b>	Partitioning problems arising from independent shifted-geometric and exponential samples with unequal intensities.	International Journal of Statistics and Probability 8(6)	31-46
2019	C	<b>ULLMO D., SWIECICKI I., GOBRON T.</b>	Quadratic mean field games.	Physics Reports	
2019	D	<b>CAPONE C., DI VOLO M., ROMAGNONI A., MATTIA M., DESTEXHE A.</b>	State-dependent mean-field formalism to model different activity states in conductance-based networks of spiking neurons.	Phys. Rev. E 100(6)	062413
2019	D	<b>FOSTER D., KENNA R., PINETTES C.</b>	Use of the Complex Zeros of the Partition Function to Investigate the Critical Behavior of the Generalized Interacting Self-Avoiding Trail Model.	Entropy 21(2)	153
2019	D	<b>HAIMERL C., ANGULO-GARCIA D., VILETTE V., REICHINNEK S., TORCINI A., COSSART R., MALVACHE A.</b>	Internal representation of hippocampal neuronal population span a time-distance continuum.	Proceedings of the National Academy of Sciences	201718518
2019	D	<b>LUCCIOLI S., ANGULO GARCIA D., TORCINI A.</b>	Neural activity of heterogeneous inhibitory spiking networks with delay.	Phys. Rev. E 99	052412
2019	D	<b>LUCCIOLI S., BEN-JACOB E., BARZILAI A., BONIFAZI P., TORCINI A.</b>	Functional Cliques in Developmentally Correlated Neural Networks.	Nonlinear Dynamics in Computational Neuroscience	53-64

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2019	D	<b>OLMI S., TORCINI A.</b>	Chimera states in pulse coupled neural networks: the influence of dilution and noise.	Nonlinear Dynamics in Computational Neuroscience	65-79
2019	D	<b>PAYRATO BORRAS C., HERNANDEZ L., MORENO Y.</b>	Breaking the Spell of Nestedness: The Entropic Origin of Nestedness in Mutualistic Systems.	Phys. Rev. X9(3)	031024
2019	D	<b>RETUREAU R., OQUEY C., MAUFFRET O., HARTMANN B.</b>	Structural Explorations of NCp7–Nucleic Acid Complexes Give Keys to Decipher the Binding Process.	JMB 431(10)	1966-1980
2018	A	<b>BIASI S., RAMIRO-MANZANO F., TURRI F., LARRE P.-E., GHULINYAN M., CARUSOTTO L., PAVESI L.</b>	Hermitian and Non-Hermitian mode coupling in a micro-disk resonator due to stochastic surface roughness scattering.	IEEE Photonics Journal 11(2)	
2018	A	<b>CREPEL V., ESTIENNE B., BERNEVIG B.A., LECHEMINANT P., REGNAULT N.</b>	Matrix Product State description of the Halperin States.	Phys. Rev. B 97	165136
2018	A	<b>DIEP H.T., EL HOG S., BAILLY-REYRE A.</b>	Skyrmion crystals: Dynamics and phase transition.	AIP Advances 8	055707
2018	A	<b>DIEP H.T., EL HOG S., PUSZKARSKI H.</b>	Spin-waves in thin films with Dzyaloshinskii-Moriya interaction.	AIP Advances 8	055706
2018	A	<b>DUPREY Q., KANJILAL S., SINHA U., HOME D., MATZKIN A.</b>	The Quantum Cheshire Cat effect: Theoretical basis and observational implications.	Annals of Physics (2018)	
2018	A	<b>DUPREY Q., MATZKIN A.</b>	Reply to Comment on "Null weak values and the past of a quantum particle" by D. Sokolovski.	Phys. Rev. A 97	046103
2018	A	<b>EL HOG S., BAILLY-REYRE A., DIEP H.T.</b>	Stability and phase transition of skyrmion crystals generated by Dzyaloshinskii-Moriya interaction.	JMMM 455	32-38
2018	A	<b>HUDER L., ARTAUD A., LE QANG T., TRAMBLY DE LAISSARDIERE G., JANSEN A.G.M., LAPERTOT G., CHAPELIER C., RENARD V.</b>	Electronic Spectrum of Twisted Graphene Layers under Heterostrain.	Phys. Rev. Lett. 120	156405
2018	A	<b>HUDER L., TRAMBLY DE LAISSARDIERE G., LAPERTOT G., JANSEN A.G.M., CHAPELIER C., RENARD V.T.</b>	Graphene on TaC: Air tight protection of a superconducting surface.	Carbon 140	592-595
2018	A	<b>JAMES A.J.A., KONIK R.M., LECHEMINANT P., ROBINSON N.J., TSVELIK A.M.</b>	Non-perturbative methodologies for low-dimensional strongly-correlated systems: From non-abelian bosonization to truncated spectrum methods.	Report. Progress of Physics	046002
2018	A	<b>LARRE P.-E., DELANDE D., CHERRORET N.</b>	Postquench prethermalization in a disordered quantum fluid of light.	Phys. Rev. A 97	043805
2018	A	<b>MARTONE G.I., LARRE P.E., FABBRI A., PAVLOFF N.</b>	Momentum distribution and coherence of a weakly interacting Bose gas after a quench.	Phys. Rev. A 98 ( <i>Editor's Suggestion</i> )	063617
2018	A	<b>MATZKIN A.</b>	Single particle nonlocality, geometric phases and time-dependent boundary conditions.	J. Phys. A: Math. Theor. 51(9)	095303

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2018	A	<b>MATZKIN A., MOUSAVI S.V., WAEGELL M.</b>	Nonlocality and local causality in the Schrödinger Equation with time-dependent boundary conditions.	Phys. Lett. A 382	3347
2018	A	<b>MICHEL C., BOUGHDAD O., ALBERT M., LARRE P.-E., BELLEC M.</b>	Superfluid motion and drag-force cancellation in a fluid of light.	Nature Communications 9	2018
2018	A	<b>MISSAOUI A., KHABTHANI J.J., JAIDANE N-E., MAYOU D., TRAMBLY DE LAISSARDIERE G.</b>	Gap opening and transport in a graphene bilayer with selective functionalization.	J. Phys.: Cond. Mat. 30	195701
2018	A	<b>MOFIDNAKHAEI F., KHASTEDEL FUMANI F., MAHDAVIFAR S., VAHEDI J.</b>	Quantum correlations in anisotropic XY-spin chains in a transverse magnetic field.	Phase Transitions 91	
2018	A	<b>MOSHFEHGH S., ASHOURI A., MAHDAVIFAR S., VAHEDI J.</b>	Integrable-chaos crossover in the spin-1/2 XXZ chain with cluster interaction.	Physica A	
2018	A	<b>PUSZKARSKI H., TOMCZAK P., DIEP H.T.</b>	SWR Studies of Higher-Order Surface Anisotropy Terms in (Ga,Mn) As Thin Film.	Acta Physica Polonica A 133(3)	635-638
2018	A	<b>SARTIPI Z., HAYATI A., VAHEDI J.</b>	Thermoelectric efficiency in three-terminal graphene nano-junctions.	The Journal of Chemical Physics 149	114103
2018	A	<b>SARTIPI Z., VAHEDI J.</b>	Enhancing thermoelectric properties through a three-terminal benzene molecule.	The Journal of Chemical Physics 148	174302
2018	A	<b>SHARAFULLIN I.F., KHARRASOV M.Kh., DIEP H.T.</b>	Magneto-ferroelectric interaction in superlattices: Monte Carlo study of phase transitions.	J. Magnetism and Magn. Materials 476	258-267
2018	A	<b>SHARAFULLIN I.F., NUGUMANOV A.G., YULDASHEVA A., ZHARMUKHAMEDOV A., DIEP H.T.</b>	Modeling of magnetoelectric and surface properties in superlattices and nanofilms of multiferroics.	J. Magnetism and Magn. Materials 475	453-457
2018	A	<b>STAPMANN J., CORBOZ P., MILA F., HONECKER A., NORMAND B., WESSEL S.</b>	Thermal Critical Points and Quantum Critical End Point in the Frustrated Bilayer Heisenberg Antiferromagnet.	Phys. Rev. Lett. 121	127201
2018	A	<b>TOMCZAK P., DIEP H.T., JABLONSKI P., PUSZKARSKI H.</b>	A Monte Carlo study of critical properties of strongly diluted magnetic semiconductor (Ga,Mn)As.	Acta Physica Polonica A 133(3)	514-516
2018	A	<b>WEICHELBAUM A., CAPPONI S., LECEMINANT P., TSVELIK A.M., LAUHLI A.</b>	Unified Phase Diagram of Antiferromagnetic SU(N) Spin Ladders.	Phys. Rev. B 98	085104
2018	A	<b>WESSEL S., NIESEN I., STAPMANN J., NORMAND B., MILA F., CORBOZ P., HONECKER A.</b>	Thermodynamic properties of the Shastry-Sutherland model from quantum Monte Carlo simulations.	Phys. Rev. B 98	174432
2018	B	<b>AVAN J., CAUDRELIER V., CRAMPE N.</b>	From Hamiltonian to zero curvature formulation for classical integrable boundary conditions.	J. Phys. A: Math. Theor. 51	30LT01

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2018	B	<b>NGUYEN M.K., TRUONG T.T.</b>	The Development of Radon Transforms associated to Compton Scatter Imaging Concepts.	Eurasian Journal of Mathematical and Computer Applications 6(1)	32-51
2018	C	<b>DE MAIO L., DUNLOP F.</b>	Sessile drop on oscillating incline.	Journal of Applied Fluid Mechanics 11(6)	28380
2018	C	<b>HARTMANN A.K., HUILLET T.</b>	Large-deviation properties of the extended Moran model.	Phys. Rev. E 98	042416
2018	C	<b>HUILLET T.</b>	Karlin–McGregor Mutational Occupancy Problem Revisited.	J. Stat. Phys. 171(6)	1136-1149
2018	C	<b>HUILLET T., MARTINEZ S.</b>	Regenerative mutation processes related to the selfdecomposability of sibuya distributions.	Prob. In the Eng. And Inform. Sciences 33	291-325
2018	D	<b>COQUAND O., ESSAFI K., KOWNACKI J.P., MOUHANNA D.</b>	Glassy phase in quenched disordered crystalline membranes.	Phys. Rev. E 97	0301025®
2018	D	<b>DI VOLO M., TORCINI A.</b>	Transition from Asynchronous to Oscillatory Dynamics in Balanced Spiking Networks with Instantaneous Synapses.	Phys. Rev. Lett. 121	128301
2018	D	<b>ELBAHNSI A., RETUREAU R., BAADEN M., HARTMANN B., OGUEY C.</b>	Holding the nucleosome together : A quantitative description of the dna–histone interface in solution.	J. Chem. Theory Comput. 14(2)	1045-1058
2018	D	<b>ESQUE J., SANSOM MSP., BAADEN M., OGUEY C.</b>	Analyzing protein topology based on Laguerre tessellation of a pore-traversing water network.	Scientific Reports 8	13540
2018	D	<b>GRACIA-LAZARO C., HERNANDEZ L., BORGE-HOLTHOEFER J., MORENO Y.</b>	The joint influence of competition and mutualism on the biodiversity of mutualistic ecosystems.	Scientific Reports 8	9253
2018	D	<b>HERNANDEZ L., VIGNES A., SABA S.</b>	Trust or robustness? An ecological approach to the study of auction and bilateral markets.	PLOS One	0196206
2018	D	<b>KAUFMAN M., DIEP H.T., KAUFMAN S.</b>	Sociophysics of intractable conflicts: Three-group dynamics.	Physica A: Statistical Mechanics and its Applications 517	175-187
2018	D	<b>LUCCIOLI S., ANGULO-GARCIA D., COSSART R., MALVACHE A., MODOL L., SOUZA V.H., BONIFAZI P., TORCINI A.</b>	Modeling driver cells in developing neuronal networks.	PLOS Computational Biology 14(11)	e1006551
2018	D	<b>POLITI A., ULLNER E., TORCINI A.</b>	Collective irregular dynamics in balanced networks of leaky integrate-and-fire neurons.	European Physical Journal Special Topics 227(10-11)	1185
2018	D	<b>TIAN C., CAO L., BI H., XU K., LIU Z.</b>	Chimera states in neuronal networks with time delay and electromagnetic induction.	Nonlinear Dynamics 92	1-10
2018	D	<b>ULLNER E., POLITI A., TORCINI A.</b>	Ubiquity of collective irregular dynamics in balanced networks of spiking neurons.	Chaos 28	081106
2017	A	<b>ATANASOV V., DANDOLOFF R.</b>	Quantum-elastic bump on a surface.	Eur.J. Phys. 38	015405



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Année	Thème	Auteur(s)	Titre article	Revue	Pages
2017	A	<b>BECKER J., KOHLER T., TIEGEL A.C., MANMANA S.R., WESSEL S., HONECKER A.</b>	Finite-temperature dynamics and thermal intra-band magnon scattering in Haldane spin-one chains.	Phys. Rev. B 96 (6)	060403(R)
2017	A	<b>DUPREY Q., MATZKIN A.</b>	Null weak values and the past of a quantum particle.	Physical Review A 95(3)	032110
2017	A	<b>EL HOG S., DIEP H.T.</b>	Partial phase transition and quantum effects in helimagnetic films under an applied magnetic field.	Journal of Magnetism and Magnetic Materials	
2017	A	<b>EL HOG S., DIEP H.T., PUSZKARSKI H.</b>	Theory of magnons in spin systems with Dzyaloshinskii-Moriya interaction.	Journal of Physics: Condensed Matter 29 (30)	305001
2017	A	<b>FRATINI S., CIUCHI S., MAYOU D., TRAMBLY DE LAISSARDIERE G., TROISI A.</b>	A map of high-mobility molecular semiconductors.	Nature Materials 16	998-1002
2017	A	<b>FUJI Y., LECHEMINANT P.</b>	Non-Abelian SU(N-1)-singlet fractional quantum Hall states from coupled wires.	Phys. Rev. B 95	125130
2017	A	<b>LECHEMINANT P., TSVELIK A.M.</b>	Lattice spin models for non-Abelian chiral spin liquids.	Phys. Rev. B 95	140406@
2017	A	<b>MATZKIN A.</b>	The theory of the Double Solution: Dynamical issues in quantum systems in the semiclassical regime.	Ann. Fond. Louis Broglie 42	13
2017	A	<b>MISSAOUI A., JEMAA KHABTHANI J., JAIDANE N.E., MAYOU D., TRAMBLY DE LAISSARDIERE G.</b>	Numerical analysis of electronic conductivity in graphene with resonant adsorbates: comparison of monolayer and Bernal bilayer.	Eur. Phys. J. B 90	75
2017	A	<b>TRAMBLY DE LAISSARDIERE G., OGUEY C., MAYOU D.</b>	Sub-diffusive electronic states in octagonal tiling.	Journal of Physics: Conf. Series 809	012020
2017	A	<b>WESSEL S., NORMAND B., MILA F., HONECKER A.</b>	Efficient Quantum Monte Carlo simulations of highly frustrated magnets: the frustrated spin-1/2 ladder.	SciPost Phys. 3	005
2017	A	<b>WINTER S.M., RIEDL K., MAKSIMOV P.A., CHERNYSHEV A.L., HONECKER A., VALENTI R.</b>	Breakdown of Magnons in a Strongly Spin-Orbital Coupled Magnet.	Nature Communications 8	1152
2017	A	<b>ZENG Y., XU P., HE X. D., LIU Y. Y., LIU M., WANG J., PAPOULAR D. J., SHLYAPNIKOV G. V., AHAN M. S.</b>	Entangling two atoms of different isotopes via Rydberg blockade.	Physical review Letters 119	16502
2017	B	<b>AVAN J., CAUDRELIER V.</b>	On the origin of dual Lax pairs and their r-matrix structure.	Journal of geometry and Physics 120	106-128
2017	B	<b>AVAN J., FRAPPAT L., RAGOUCY E.</b>	Deformed Virasoro Algebras from Elliptic Quantum Algebras.	Communications in Mathematical Physics 354 (2)	753-773
2017	B	<b>AVAN J., FRAPPAT L., RAGOUCY E.</b>	Dynamical centers for the elliptic quantum algebra $B_{q,\lambda}(gl_2)_c$ .	J. Phys. A: Math. Theor. 50 (39)	394002

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2017	B	<b>CANTINI L.</b>	Asymmetric Simple Exclusion Process with Open Boundaries and Koornwinder Polynomials.	Annales Henri Poincaré 18 (4)	1121-1151
2017	C	<b>DE CONINCK J., DUNLOP F., HUILLET T.</b>	Contact angles of a drop pinned on an incline.	Physical Review E 95	052805
2017	C	<b>DE CONINCK J., FERNANDEZ TOLEDANO J.C., DUNLOP F., HUILLET T.</b>	Pinning of a drop by a junction on an incline.	Phys. Rev. E 96(4)	042804
2017	C	<b>GROSJEAN N., HUILLET T.</b>	Wright-Fisher-like models with constant population size on average.	International Journal of Biomathematics 10(6)	1750078
2017	C	<b>GROSJEAN N., HUILLET T.</b>	On the genealogy and coalescence times of Bienaymé-Galton-Watson branching processes.	Stochastics Models	1-24
2017	C	<b>HUILLET T.</b>	Random Evolutionary Dynamics Driven by Fitness and House-of-Cards Mutations: Sampling Formulae.	Journal of Statistical Physics 168(1)	15-42
2017	C	<b>HUILLET T.</b>	On Bagchi-Pal urn models and related Polya-Friedman ones.	J. Stat. Mech. 2017 (9)	093211
2017	C	<b>HUILLET T.</b>	Stochastic species abundance models involving special copulas.	Physica A: Statistical Mechanics and its Applications 490	77-91
2017	D	<b>ANGULO-GARCIA D., LUCCIOLI S., OLM I S., TORCINI A.</b>	Death and rebirth of neural activity in sparse inhibitory networks.	New Journal of Physics 19	053011
2017	D	<b>DIEP H.T., KAUFMAN M., KAUFMAN S.</b>	Dynamics of two-group conflicts: A statistical physics model.	Physica A 469	183-199
2017	D	<b>KAUFMAN M., KAUFMAN S., DIEP H.T.</b>	Scenarios of Social Conflict Dynamics on Duplex Networks.	Policy and Complex Systems 3(2)	3-13
2017	D	<b>OLMI S., ANGULO-GARCIA D., IMPARATO A., TORCINI A.</b>	Exact firing time statistics of neurons driven by discrete inhibitory noise.	Nature Scientific Reports 7	1577
2016	A	<b>AZARIA P., KONIK R.M., LECHEMINANT P., PALMAI T., TAKACS G., TSVELIK A.M.</b>	Particle Formation and Ordering in Strongly Correlated Fermionic Systems: Solving a Model of Quantum Chromodynamics.	Phys. Rev. D 94	045003
2016	A	<b>BOIS V., FROMHOLZ P., LECHEMINANT P.</b>	One-dimensional two-orbital SU(N) ultracold fermionic quantum gases at incommensurate filling: a low-energy approach,	Phys. Rev. B 93	134415
2016	A	<b>CAPPONI S., LECHEMINANT P., TOTSUKA K.</b>	Phases of one-dimensional SU(NN) cold atomic Fermi gases—From molecular Luttinger liquids to topological phases.	Annals of Physics 367	50-95
2016	A	<b>DIEP H.T.</b>	Theoretical methods for understanding advanced magnetic materials: The case of frustrated thin films .	Journal of Science: Advanced Materials and Devices 1(1)	31-44
2016	A	<b>EL HOG S., DIEP H.T.</b>	Helimagnetic thin films: surface reconstruction, surface spin-waves and magnetization.	Journal of Magnetism and Magnetic Materials 400	276-281
2016	A	<b>EL HOG S., DIEP H.T.</b>	Tricriticality of the Blume Emery Griffiths model in thin films of stacked triangular lattices.	Modern Physics Letters B 30(07)	1650071
2016	A	<b>HONECKER A., MILA F., NORMAND B.</b>	Multi-triplet bound states and finite-temperature dynamics in highly frustrated quantum spin ladders.	Phys. Rev. B 94	094402

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2016	A	<b>HONECKER A., WESSEL S., KERKDYK R., PRUSCHKE T., MILA F., NORMAND B.</b>	Thermodynamic properties of highly frustrated quantum spin ladders: Influence of many-particle bound states	Phys. Rev. B 93	054408
2016	A	<b>KLYUSHINA E.S., TIEGEL A.C., FAUSEWEH B., ISLAM A.T.M.N., PARK J.T., KLEMKE B., HONECKER A., UHRIG G.S., MANMANAS.R., LAKE B.</b>	Magnetic excitations in the S=12 antiferromagnetic-ferromagnetic chain compound BaCu <sub>2</sub> V <sub>2</sub> O <sub>8</sub> at zero and finite temperature,	Phys. Rev. B93	241109(R)
2016	A	<b>PAPOULAR D., PITAEVSKII L.P., STRINGARI S.</b>	Quantized conductance through the quantum evaporation of bosonic atoms.	Phys. Rev. A 94	023622
2016	A	<b>PUSZKARSKI H., TOMCZAK P., DIEP H.T.</b>	Surface anisotropy energy in terms of magnetocrystalline anisotropy fields in ferromagnetic semiconductor (Ga,Mn) As thin films.	Phys. Rev. B 94	195303
2016	A	<b>SANDEAU N., AKHOUAYRI H., MATZKIN A., DURT T.</b>	Experimental violation of Tsirelson's bound by Maxwell fields.	Phys. Rev. A 93 (5)	053829
2016	A	<b>TIEGEL A.C., HONECKER A., PRUSCHKE T., PONOMARYOV A., ZVYAGIN S.A., FEYERHERM R., MANMANA S.R.</b>	Dynamical properties of the sine-Gordon quantum spin magnet Cu-PM at zero and finite temperature.	Phys. Rev. B 93	104411
2016	A	<b>TIEGEL A.C., MANMANA S.R., PRUSCHKE T., HONECKER A.</b>	Erratum: Matrix product state formulation of frequency-space dynamics at finite temperatures.	Phys. Rev. B 94(17)	179908
2016	A	<b>TIEGEL A.C., VENESS T., DARGEL P.E., HONECKER A., PRUSCHKE T., McCULLOCH I.P., ESSLER F.H.L.</b>	Optical conductivity of the Hubbard chain away from half filling.	Phys. Rev. B 93	125108
2016	A	<b>TRAMBLY DE LAISSARDIERE G., NAMARVAR O.F., MAYOU D., MAGAUD L.</b>	Electronic properties of asymmetrically doped twisted graphene bilayers.	Phys. Rev. B93	235135
2016	A	<b>YAHYAOU S., DIEP H.T.</b>	Magnetic properties of (La <sub>0.56</sub> Ce <sub>0.14</sub> )Sr <sub>0.30</sub> MnO <sub>3</sub> perovskite.	Physics Letters A 380(39)	3212-3216
2016	A	<b>YAHYAOU S., KALLEL S., DIEP H.T.</b>	Magnetic properties of perovskites La <sub>0.7</sub> Sr <sub>0.3</sub> View the MathML sourceMn <sub>0.73</sub> +View the MathML sourceMn <sub>0.3-x4</sub> +TixO <sub>3</sub> : Monte Carlo simulation versus experiments.	J. Mag. Magn. Materials 416	441-448
2016	B	<b>AVAN J., CAUDRELIER V., DOIKOU A., KUNDU A.</b>	Lagrangian and Hamiltonian structures in an integrable hierarchy and space-time duality.	Nucl. Phys. B 902	415-439
2016	B	<b>BELLIARD S., PIMENTA R.A.</b>	Slavnov and Gaudin-Korepin formulas for models without U(1) symmetry: The XXX chain on the segment.	Journal of Physics A Mathematical and Theoretical 49(17)	17LT01
2016	B	<b>CANTINI L., GARBALI A., De GIER J., WHEELER M.</b>	Koornwinder polynomials and the stationary multi-species asymmetric exclusion process with open boundaries.	J. Phys. A: Math. Theor. 49(44)	444002
2016	B	<b>TRUONG T.T.</b>	Quartic Anharmonic Oscillator Integral Properties Via The 2D-Quantum Free Fall Problem.	Far East Journal of Applied Mathematics 94(6)	455-490
2016	C	<b>FAJFROVA L., GOBRON T., SAADA E.</b>	Invariant measures of mass migration processes.	Electronic Journal of Probability 21	Paper n°60

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2016	C	<b>GROSJEAN N., HUILLET T.</b>	Deterministic versus stochastic aspects of superexponential population growth models.	Physica A 455	23-27
2016	C	<b>GROSJEAN N., HUILLET T.</b>	Additional aspects of the generalized linear-fractional branching process.	Annals of the Institute of Statistical Mathematics	1-23
2016	C	<b>GROSJEAN N., HUILLET T.</b>	Some combinatorial aspects of discrete non-linear population dynamics.	Chaos, Solitons and Fractals 93	71-79
2016	C	<b>GROSJEAN N., HUILLET T.</b>	On a coalescence process and its branching genealogy.	Journal of Applied Probability 53(4)	1156-1165
2016	C	<b>GROSJEAN N., HUILLET T.</b>	On simple age-structured population models.	Applied Mathematical Modelling	
2016	C	<b>GROSJEAN N., HUILLET T., ROLLET G.</b>	On discrete evolutionary dynamics driven by quadratic interactions.	Theory in Biosciences 135(4)	187-200
2016	C	<b>HUILLET T.</b>	On Mittag-Leffler distributions and related stochastic processes.	Journal of Comput. and Appl. Math. 296	181-211
2016	C	<b>HUILLET T.</b>	Random walk Green kernels in the neutral Moran model conditioned on survivors at a random time to origin.	Mathematical Population Studies 23(3)	164-200
2016	C	<b>HUILLET T., MARTINEZ S., MOEHLE M.</b>	On polymorphism for discrete evolutionary dynamics driven either by selection or segregation distortion.	Computational and Applied Mathematics	
2016	C	<b>KOUKIOU F.</b>	A Generalized Variational Principle for Gaussian Random Fields.	Journal of Physics: Conference Series 738(1)	012007
2016	C	<b>SWIECICKI I., GOBRON I., ULLMO D.</b>	"Phase diagram" of a mean field game.	Physica A: Statistical Mechanics and its Applications 442	467-485
2016	C	<b>SWIECICKI I., GOBRON T., ULLMO D.</b>	Schrödinger Approach to Mean Field Games.	Phys. Rev. Lett. 116	128701
2016	D	<b>BEN IMEDDOURENE A., XU X., ZARGARIAN L., OGUEY C., FOLOPPE N., MAUFFRET O., HARTMANN B.</b>	The intrinsic mechanics of B-DNA in solution characterized by NMR.	Nucleic Acids Research 44(7).	3432-3447
2016	D	<b>PIGUET F., HOULDALI H., DISCALA F., BRETON M.F., BEHREND S.J.C., PELTA J., OUKHALED A.</b>	High Temperature Extends the Range of Size Discrimination of Nonionic Polymers by a Biological Nanopore.	Scientific Reports 6	38675
2015	A	<b>ATANASOV V., DANDOLOFF R.</b>	The curvature of the rotating disk and its quantum manifestation.	Phys. Scr. 90	065001
2015	A	<b>BAILLY-REYRE A., DIEP H.T., KAUFMAN M.</b>	Phase Transition and surface sublimation of a mobile Potts model.	Phys. Rev. E 92	042160
2015	A	<b>BOIS V., CAPPONI S., LECHEMINANT P., MOLINER M.</b>	Competing superconducting instabilities in the one-dimensional p-band degenerate cold fermionic system.	Phys. Rev. B 92	075140

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2015	A	<b>BOIS V., CAPPONI S., LECHEMINANT P., MOLINER M., TOTSUKA K.</b>	Phase diagrams of one-dimensional half-filled two-orbital SU(N) cold fermions systems.	Phys. Rev. B 91	075121
2015	A	<b>CHERKEZ V., TRAMBLY DE LAISSARDIERE G., MALLET P., VEUILLEN J.Y.</b>	Van Hove singularities in doped twisted graphene bilayers studied by scanning tunneling spectroscopy.	Phys. Rev. B 91	155428
2015	A	<b>DANDOLOFF R.</b>	New Topological Configurations in the Continuous Heisenberg Spin Chain: Lower Bound for the Energy.	Advances in Condensed Matter Physics 2015	ID 954524
2015	A	<b>DIEP H.T.</b>	Quantum theory of helimagnetic thin films.	Physical Review B 91 (1)	014436
2015	A	<b>FELOUZIS V., HERMAND P., TRAMBLY DE LAISSARDIERE G., COMBADIÈRE C., DETERRE P.</b>	Comprehensive analysis of chemokine-induced cAMP-inhibitory responses using a real-time luminescent biosensor.	Cellular Signalling 28	120-129
2015	A	<b>LECHEMINANT P.</b>	Massless renormalization group flow in SU(N) <sub>k</sub> perturbed conformal field theory.	Nuclear Physics B 901	510-525
2015	A	<b>LECHEMINANT P., TSVELIK A.M.</b>	Two-leg SU(2n) spin ladder: A low-energy effective field theory approach.	Physical Review B 91 (17)	174407
2015	A	<b>MATZKIN A.</b>	Weak measurements of trajectories in quantum systems: classical, Bohmian and sum over paths.	J. Phys. A: Math. Theor. 48	305301
2015	A	<b>OZEROV M., MAKSYMENKO M., WOSNITZA J., HONECKER A., LANDEE C.P., TURNBULL M.M., FURUYA S.C., GIAMARCHI T., ZVYAGIN S.A.</b>	Electron spin resonance modes in a strong-leg ladder in the Tomonaga-Luttinger liquid phase.	Phys. Rev. B 92	241113
2015	A	<b>SPONAR S., DENKMAYR T., GEPPELT H., LEMMEL H., MATZKIN A., TOLLAISEN J., HASEGAWA Y.</b>	Weak values obtained in matter-wave interferometry.	Phys. Rev. A 92(6)	062121
2015	B	<b>AVAN J., BELLIARD S., GROSJEAN N., PIMENTA R.A.</b>	Modified algebraic Bethe ansatz for XXZ chain on the segment - III - Proof.	Nuclear Physics B 899	229-246
2015	B	<b>AVAN J., DOIKOU A., KARAISKOS N.</b>	Scattering matrices in the sl(3) twisted Yangian.	J. Stat. Mech.	P02007
2015	B	<b>AVAN J., DOIKOU A., KARAISKOS N.</b>	The sl(N) Twisted Yangian: Bulk Boundary Scattering and Defects.	J. Stat. Mech.	P05024
2015	B	<b>AVAN J., RAGOUCY E., ROUBTSOV V.</b>	Quantization and Dynamization of Trace Poisson Brackets.	Journal Communications in Mathematical Physics 341(1)	263-287
2015	B	<b>BELLIARD S.</b>	Modified algebraic Bethe ansatz for XXZ chain on the segment - I - triangular cases.	Journal-ref: Nuclear Phys. B892	1-20
2015	B	<b>BELLIARD S., PIMENTA R.A.</b>	Modified algebraic Bethe ansatz for XXZ chain on the segment - II - general cases.	Nuclear Physics B 894	527-552

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2015	B	<b>BELLIARD S., PIMENTA R.A.</b>	Slavnov and Gaudin formulas for models without $U(1)$ symmetry: the twisted XXX chain.	Symmetry Integrability and Geometry Methods and Applications (SIGMA) 11	099
2015	B	<b>CANTINI L., De GIER J., WHEELER M.</b>	Matrix product formula for Macdonald polynomials.	J. Phys. A: Math. Theor. 48	384001
2015	B	<b>TRUONG T.T., NGUYEN M.K.</b>	New properties of the V-line Radon transform and their imaging applications.	J. Phys. A: Math. Theor. 48	405204
2015	C	<b>AVAN J., GROSJEAN N., HUILLET Th.</b>	On extreme events for non-spatial and spatial branching Brownian motions.	Physica D, Nonlinear phenomena. 298	13-20
2015	C	<b>AVAN J., GROSJEAN N., HUILLET Th.</b>	Did the ever dead outnumber the living and when? A birth-and-death approach.	Physica A: Stat. Mech. and its Appl.	Online First
2015	C	<b>COLLET P., DUNLOP F., HUILLET T.</b>	Wetting Transitions for a Random Line in Long-Range Potential.	J. Stat. Phys. 160(6)	1545-1622
2015	C	<b>De CONINCK J., DUNLOP F., HUILLET Th.</b>	Wetting in 1+1 dimensions with two-scale roughness.	Physica A 438	398-415
2015	C	<b>HUILLET T., SANTHANAM M.S.</b>	Preface to the special issue on Extreme Events and its Applications.	Chaos Solitons and Fractals 74	1-2
2015	D	<b>BEN IMEDDOURENE A., ELBAHNSI A., GUEROULT M., OGUEY C., FOLOPPE N., HARTMANN B.</b>	Simulations Meet Experiment to Reveal New Insights into DNA Intrinsic Mechanics.	PLoS Computational Biology 11(12)	e1004631
2015	D	<b>BURGOS E., HERNANDEZ L., CEVA H., PERAZZO R.P.J.</b>	Entropic determination of the phase transition in a coevolving opinion-formation model.	Physical Review E 91	032808
2015	D	<b>ELBAHNSI A., MAUFFRET O., PERAHIA D., HARTMANN B., OGUEY C.</b>	New insights on nucleic acids - protein interfaces revealed by VLDM, a geometrical approach.	Journal of Biomolecular Structure & Dynamics 33(1)	14-15
2014	A	<b>BOCCHETTI V., DIEP H.T., ENRIQUEZ H., OUGHADDOU H., KARA A.</b>	Thermal Stability of Standalone Silicene Sheet.	J. Phys.: Conference Series 491	012008
2014	A	<b>DANDOLOFF R., JENSEN B., SAXENA A.</b>	Generalized anti-centrifugal potential.	Phys.Lett. A 378	510
2014	A	<b>DENKMAYR T., GEPPERT H., SPONAR S., LEMMEL H., MATZKIN A., TOLLAKSEN J., HASEGAWA Y.</b>	Observation of a quantum Cheshire Cat in a matter wave interferometer experiment.	Nature Communications 5	4492
2014	A	<b>DIEP H.T., BOCCHETTI V., HOANG D.T., NGO V.T.</b>	Theory and Simulation of Magnetic Materials: Physics at Phase Frontiers.	J. Phys.: Conference Series 537	012001
2014	A	<b>HOANG D.T., DIEP H.T.</b>	Phase Transition in Dimer Liquids.	J. Phys.: Condens. Matter 26	035103
2014	A	<b>JENSEN B., DANDOLOFF R., SAXENA A.</b>	Quantum particle constrained to a surface in quantum hydrodynamics.	Phys. Scr. 89	105202

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2014	A	<b>JOLICOEUR T., MIZUSAKI T., LECHEMINANT P.</b>	Absence of a gap in the Gaffnian state.	Phys. Rev. B 90	075116
2014	A	<b>NGO V.T., HOANG D.T., DIEP H.T., CAMPBELL I.A.</b>	Effect of Disorder in the Frustrated Ising FCC Antiferromagnet: Phase Diagram and Stretched Exponential Relaxation.	Modern Phys. Letters B 28	1450067
2014	A	<b>TRAMBLY DE LAISSARDIERE G., MAYOU D.</b>	Anomalous electronic transport in Quasicrystals and related Complex Metallic Alloys.	C. R. Physique 15	70-81
2014	A	<b>TRAMBLY DE LAISSARDIERE G., SZALLAS A., MAYOU D.</b>	Electronic Structure and Transport in Approximants of the Penrose Tiling.	Acta Physica Polonica A 126 (2)	617
2014	A	<b>WOLF B., HONECKER A., HOFSTETTER W., TUTSCH U., LANG M.</b>	Cooling through quantum criticality and many-body effects in condensed matter and cold gases.	International Journal of Modern Physics B 28(26)	1430017
2014	B	<b>AVAN J., FONSECA T., FRAPPAT L., KULISH P., RAGOUCY E., ROLLET G.</b>	Temperley-Lieb R-Matrices from Generalized Hadamard Matrices.	Theor. Math. Phys. 178	223
2014	B	<b>AVAN J., KULISH P., ROLLET G.</b>	Reflection Matrices from Hadamard Type Temperley-Lieb R-Matrices.	Theor.Math.Phys. 179	387
2014	B	<b>CANTINI L., SPORTIELLO A.</b>	A one-parameter refinement of the Razumov-Stroganov correspondence.	Journal of Combinatorial Theory, Series A 127	400-440
2014	B	<b>GROSJEAN N., MAILLET J.M., NICCOLI G.</b>	On the Form Factors of Local Operators in the Bazhanov–Stroganov and Chiral Potts Models.	Annales Henri Poincaré	Online First
2014	C	<b>BENSALLAH M., DJEDDOU M., DROUCHE K.</b>	Security enhancement of the authenticated RFID security mechanism based on chaotic maps.	Security and Communication Networks	
2014	C	<b>HUILLET Th.</b>	Pareto genealogies arising from a Poisson branching evolution model with selection.	Journal of Mathematical Biology 68(3)	727-61
2014	C	<b>HUILLET Th., MARTINEZ S.</b>	On Mobius Duality and Coarse-Graining.	Journal of Theoretical Probability	1-37
2014	C	<b>HUILLET Th., MOEHLE M.</b>	Asymptotics of symmetric compound Poisson population models.	Combinatorics, Probability and Computing (Special issue dedicated to the memory of Philippe Flajolet) 23(5)	1-38
2014	D	<b>BORGHESI C., MOUKHTAR J., LABOUSSE M., EDDI A., FORT E., COUDER Y.</b>	The interaction of two walkers: wave-mediated energy and force.	Phys. Rev. E90 (Editor's Suggestion")	063017
2014	D	<b>BOUCHAUD J.-P., BORGHESI C., JENSEN P.</b>	On the emergence of an "intention field" for socially cohesive agents.	J. Stat. Mech.	P03010
2014	D	<b>ESSAFI K., KOWNACKI J.P., MOUHANNA D.</b>	First order phase transitions in polymerized phantom membranes.	Physical Review E 89	042101
2014	D	<b>FOSTER D.P., PIGUET F.</b>	Collaborative effects in polymer translocation and the appearance of fi ctitious free-energy barriers.	Physical review E 89	030601
2014	D	<b>JOLLIVET A.</b>	Inverse scattering at high energies for the multidimensional Newton equation in a long range potential.	Asymptotic Analysis 90(1&2)	105-132

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Année	Thème	Auteur(s)	Titre article	Revue	Pages
2014	D	<b>PERAZZO R. P.J., HERNANDEZ L., BURGOS E., CEVA H., HAMELIN I. A.</b>	Study of the influence of the phylogenetic distance on the interaction network of mutualistic ecosystems.	Physica A 394	124-135
2014	D	<b>TRUONG T.T.</b>	On geometric aspects of circular arcs Radon transforms for Compton scatter tomography.	Eurasian Journal of Mathematical and Computer Applications 2 (1)	40-69
2013	A	<b>BOCCHETTI V., DIEP H.T.</b>	Melting of rare-gas crystals: Monte Carlo simulation versus experiments.	J. Chem. Phys. 138	104122
2013	A	<b>BOCCHETTI V., DIEP H.T.</b>	Monte Carlo Simulation of Melting and Lattice Relaxation of the (111) Surface of Silver.	Surface Science 614	46
2013	A	<b>BORGHESI C., HERNANDEZ L., LOUF R., CAPARROS F.</b>	Universal size effects for populations in group-outcome decision-making problems.	Phys. Rev. E 88	062813
2013	A	<b>CAPPONI S., LECHEMINANT P., MOLINER M.</b>	Quantum phase transitions in multileg spin ladders with ring exchange.	Physical Review B88	075132
2013	A	<b>HOANG D.T., KASPERSKI M., PUSZARSKI H., DIEP H.T.</b>	Re-Orientation Transition in Molecular Thin Films: Potts Model with Dipolar Interaction.	Cond. Matter 25	056006
2013	A	<b>HOANG D.T., KASPERSKI M., PUSZKARSKI H., DIEP H.T.</b>	Re-orientation transition in molecular thin films: Potts model with dipolar interaction.	Journal of Physics Condensed Matter 25(5)	056006
2013	A	<b>KASPERSKI M., PUSZKARSKI H., HOANG D.T., DIEP H.T.</b>	Magnetic Properties of Two-dimensional Nanodots: Ground State and Phase Transition.	AIP Advances 3	122121
2013	A	<b>MATZKIN A., PAN A.K.</b>	Three-box paradox and "Cheshire cat grin": the case of spin-1 atoms.	J. Phys. A: Math. Theor. 46(31)	315307
2013	A	<b>MOLINER M., SCHMITTECKERT P.</b>	Adiabatic Tracking of a State: a New Route to Nonequilibrium Physics.	Phys. Rev. Lett. 111	120602 (Selected as an Editors' Suggestion)
2013	A	<b>NONNE H., MOLINER M., CAPPONI S., LECHEMINANT P., TOTSUKA K.</b>	Symmetry-protected topological phases of alkaline-earth cold fermionic atoms in one dimension.	Europhysics Letters 102(3)	37008
2013	A	<b>RANCON A., KODIO O., DUPUIS N., LECHEMINANT P.</b>	Thermodynamics in the vicinity of a relativistic quantum critical point in 2 + 1 dimensions.	Phys. Rev. E 88	012113
2013	A	<b>SOULE P., JOLICOEUR T., LECHEMINANT P.</b>	Many-body study of a quantum point contact in the fractional quantum Hall regime at $\nu=5/2$ .	Phys. Rev. B 88	235107
2013	A	<b>TRAMBLY DE LAISSARDIERE G., MAYOU D.</b>	Conductivity of Graphene with Resonant and Nonresonant Adsorbates.	Phys. Rev. Lett. 111	146601
2013	C	<b>COLLET P., De CONINCK J., DROUICHE K., DUNLOP F.</b>	From substrate disorder to contact angle hysteresis, and back.	Colloid & Polymer Science 291	291-298
2013	C	<b>De CONINCK J., DUNLOP F., HUILLET Th.</b>	Is superhydrophobicity robust with respect to disorder?	European Physical Journal E 36	104
2013	C	<b>DJEDDOU M., ZEHER H., NEKACTALI Y., DROUICHE K.</b>	TOA estimation technique for IR-UWB based on homogeneity test.	ETRI Journal 35 (5)	757-766



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2013	C	<b>HUILLET Th.</b>	Fluctuations Analysis of finite discrete Birth and Death Chains with Emphasis on Moran Models with Mutations.	Biomathematics, ISRN, Volume 2013	Article ID 939308
2013	C	<b>HUILLET Th., MARTINEZ S.</b>	Occupancy distributions arising in sampling from Gibbs-Poisson abundance models.	Journal of Statistical Physics 153 (5)	763-800
2013	C	<b>HUILLET Th., MOEHLE M.</b>	On the extended Moran model and its relation to coalescents with multiple collisions.	Theoretical Population Biology, 87. "Special Issue on Coalescent Theory", J. Wakeley (dir.), Princeton University	5-14
2013	D	<b>BILLAUD B., TRUONG T.T.</b>	Lamb shift of non-degenerate energy level systems placed between two infinite parallel conducting plates.	J. Phys. A: Math. Theor. 46	025306
2013	D	<b>CARVALHO-SANTOS V.L., DANDOLOFF R.</b>	Topological Spin Excitations Induced by an External Magnetic Field Coupled to a Surface with Rotational Symmetry.	Brazilian Journal of Physics 43(3)	130-136
2013	D	<b>ESQUE J., LEONARD S., DE BREVERN A.G., OQUEY C.</b>	VLDP web server : a powerful geometric tool for analysing protein structures in their environment.	Nucl. Acid Res. 41(W1)	W373-W378
2013	D	<b>JOLLIVET A.</b>	On inverse scattering at fixed energy for the multidimensional Newton equation in a non-compactly supported field.	Journal of Inverse and Ill-posed Problems 21(6)	713-734
2013	D	<b>NATH S., FOSTER D.P., GIRI D., KUMAR S.</b>	Single polymer gating of channels under a solvent gradient.	Phys. Rev. E 88	054601
2013	D	<b>PIQUET F., FOSTER D.</b>	Translocation of short and long polymers through an interacting pore.	J. Chem. Phys. 138	084902
2013	D	<b>SATOMI R., GRASSIA P., OQUEY C.</b>	Modelling relaxation following T1 transformations of foams incorporating surfactant mass transfer by the Marangoni effect.	Col. Surf. A : Physicochem. Eng. Aspects 438	77-84
2013	D	<b>TRUONG T.T.</b>	Inversion of some spherical cap Radon transforms.	Eurasian Journal of Mathematical and Computer Applications 1 (1)	78-102
2012	A	<b>BORGHESI C., CHICHE J., NADAL J.P.</b>	Between Order and Disorder: a "Weak law" on Recent Electoral Behavior among Urban Voters?	PLoS ONE 7 (7)	e39916
2012	A	<b>BORGHESI C., RAYNAL J.C., BOUCHAUD J.P.</b>	Election Turnout Statistics in Many Countries: Similarities, Differences, and a Diffusive Field Model for Decision-Making.	PLoS ONE 7(5)	e36289
2012	A	<b>BRIHUEGA I., MALLET P., GONZALEZ-HERRERO H., TRAMBLY DE LAISSARDIERE G., UGEDA M.M., MAGAUD L., GOMEZ-RODRIGUEZ J.M., YNDURAIN F., VEUILLEN J.Y.</b>	Unraveling the Intrinsic and Robust Nature of van Hove Singularities in Twisted Bilayer Graphene by Scanning Tunneling Microscopy and Theoretical Analysis.	Phys. Rev. Lett. 109	196802
2012	A	<b>DIEP H.T., MAGNIN Y., HOANG D.T.</b>	Spin Resistivity in Magnetic Materials.	Acta Physica Polonica A 121	985
2012	A	<b>ESSAFI K., KOWNACKI J.P., MOUHANNA D.</b>	Nonperturbative renormalization group approach to Lifshitz critical behaviour.	Europhysics Letters 98	51002
2012	A	<b>HOANG D.T., DIEP H.T.</b>	Hexagonal-Close-Packed Lattice: Ground State and Phase Transition.	Phys. Rev. E 85	041107
2012	A	<b>HOANG D.T., DIEP H.T.</b>	Effect of Dipolar Interaction in Molecular Crystals.	J. Phys.: Condensed Matter. 24	415402

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2012	A	<b>HOME D., MAJUMDAR A.S., MATZKIN A.</b>	Effects of a transient barrier on wavepacket traversal.	J. Phys. A: Math. Theor. 45	295301
2012	A	<b>LECHEMINANT P., NONNE H.</b>	Exotic quantum criticality in one-dimensional coupled dipolar bosons tubes. <b>Papier sélectionné "Editor's suggestion".</b>	Phys. Rev. B. 85	195121
2012	A	<b>MAGNIN Y., DIEP H.T.</b>	Monte Carlo Study of Magnetic Resistivity in Semiconducting MnTe.	Phys. Rev. B 85	184413
2012	A	<b>MATZKIN A.</b>	Weak Measurements in Non-Hermitian Systems.	J. Phys. A 45	444023
2012	A	<b>MATZKIN A.</b>	Observing Trajectories with Weak Measurements in Quantum Systems in the Semiclassical Regime.	Phys. Rev. Lett. 109	150407
2012	A	<b>PAN A.K., MATZKIN A.</b>	Weak measurements as an instance of non-ideal measurements.	Las. Phys. 22	1553
2012	A	<b>PAN A.K., MATZKIN A.</b>	Weak and semiweak values in non-ideal measurements: an exact treatment beyond the asymptotic regime.	Phys. Rev. A 85	022122
2012	A	<b>TOTSUKA K., LECHEMINANT P., CAPPONI S.</b>	Semiclassical approach to competing orders in two-leg spin ladder with ring-exchange.	Phys. Rev. B 86	014435
2012	A	<b>TRAMBLY DE LAISSARDIERE G., MAYOU D., MAGAUD L.</b>	Numerical studies of confined states in rotated bilayers of graphene.	Phys. Rev. B 86	125413
2012	B	<b>AVAN J., BILLAUD B., ROLLET G.</b>	Classification of Non-Affine Non-Hecke Dynamical R-Matrices.	SIGMA 8	064
2012	B	<b>AVAN J., DOIKOU A.</b>	Liouville integrable defects: the non-linear Schrodinger paradigm.	Journal of High Energy Physics 01	040
2012	B	<b>AVAN J., DOIKOU A.</b>	The Sine Gordon Model with integrable defects revisited.	JHEP 11	008
2012	B	<b>AVAN J., RAGOUCY E.</b>	A new dynamical reflection algebra and related quantum integrable systems.	Lett. Math. Phys. 101	85-101
2012	B	<b>AVAN J., RAGOUCY E.</b>	Rational Calogero-Moser model: Explicit forms and r-matrix structure of the second Poisson structure .	SIGMA (8)	079
2012	B	<b>BIANE P., CANTINI L., SPORTIELLO A.</b>	Doubly-refined enumeration of alternating sign matrices and determinants of 2-staircase Schur functions.	Séminaire Lotharingien de Combinatoire B65f	25pp.
2012	B	<b>CANTINI L.</b>	Finite size emptiness formation probability of the XXZ spin chain at $-1/2$ .	J. Phys. A: Math. Theor. 45	135207
2012	C	<b>HUILLET Th.</b>	A branching diffusion model of selection: from the neutral Wright-Fisher case to the one including mutations.	International Mathematical Forum 7 (1)	1-36
2012	C	<b>HUILLET Th.</b>	Diffusion versus jump processes arising as scaling limits in population genetics.	Journal of Statistics: Advances in Theory and Applications 7 (2)	85-154
2012	C	<b>HUILLET Th., MOEHLE M.</b>	Correction on "Population genetics models with skewed fertilities: a forward and backward analysis".	Stochastic Models 28 (3)	527-532
2012	D	<b>ATANASOV V., DANDOLOFF R., SAXENA A.</b>	Torus in a magnetic field: curvature-induced surface states.	J. Phys. A: Mat.Theor. 45	105307
2012	D	<b>CARVALHO-SANTOS V.L., DANDOLOFF R.</b>	Coupling between magnetic field and curvature in Heisenberg spins on surfaces with rotational symmetry.	Phys. Lett. A 376(46)	3551-3554
2012	D	<b>FOSTER D.P., PINETTES C.</b>	Surface critical behaviour of the vertex-interacting self-avoiding walk on the square lattice.	J. Phys. A 45	505003
2012	D	<b>GRASSIA P., OGUEY C., SATOMI R.</b>	Relaxation of the topological T1 process in a two-dimensional foam.	Eur. Phys. Journal E 35	1-12
2011	A	<b>AKABLI K., MAGNIN Y., OKO M., HARADA I., DIEP H.T.</b>	Theory and Monte Carlo Simulation of Spin Transport in Antiferromagnetic films: Application to MnTe.	Phys. Rev. B 84	024428

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2011	A	<b>ALET F., CAPPONI S., NONNE H., LECHEMINANT P., McCULLOCH I.P.</b>	Quantum criticality in the SO(5) bilinear-biquadratic Heisenberg chain.	Physical Review B 83	060407 ®
2011	A	<b>ESSAFI K., KOWNACKI J.P., MOUHANNA D.</b>	Crumpled-to-tubule transition in anisotropic polymerized membranes: beyond epsilon-expansion.	Physical Review Letters 106	128102
2011	A	<b>GRACIA-LAZARO C., QUIJANDRIA F., HERNANDEZ L., FLORIA M., MORENO Y.</b>	Coevolutionary network approach to cultural dynamics controlled by intolerance.	Phys Rev E 84	067101
2011	A	<b>HOANG D.T., MAGNIN Y., DIEP H.T.</b>	Spin Resistivity in the Frustrated J <sub>1</sub> -J <sub>2</sub> Model.	Mod. Phys. Lett. B 25	937-945
2011	A	<b>KAUFMAN M., DIEP H.T.</b>	Equation of State from Potts-Percolation Model of a Solid.	Phys. Rev. E 84	051106
2011	A	<b>LOMBARDI M., MATZKIN A.</b>	Entanglement and chaos in the kicked top.	Phys. Rev. 83	016207
2011	A	<b>MAGNIN Y., AKABLI K., DIEP H.T.</b>	Spin Resistivity in Frustrated Antiferromagnets.	Phys. Rev. B 83	144406
2011	A	<b>MAGNIN Y., HOANG D.T., DIEP H.T.</b>	Spin transport in magnetically ordered systems : effect of lattice relaxation time.	Mod. Phys. Lett. B 25	1029-1040
2011	A	<b>MATZKIN A.</b>	Entanglement in the classical limit: quantum correlations from classical probabilities.	Phys. Rev. A 84	022111
2011	A	<b>NGO V.T., HOANG D.T., DIEP H.T.</b>	Phase Transition in Heisenberg Fully Frustrated Simple Cubic Lattice.	Mod. Phys. Lett. B 25	929-936
2011	A	<b>NGO V.T., HOANG D.T., DIEP H.T.</b>	Flat Energy-Histogram Simulation of Phase Transition in an Ising Fully Frustrated Lattice.	J. Phys.: Condensed Matter 23	226002
2011	A	<b>NONNE H., BOULAT E., CAPPONI S., LECHEMINANT P.</b>	Phase diagram of one-dimensional earth-alkaline cold fermions.	Mod. Phys. Lett. B 25 (12 - 13)	955-962
2011	A	<b>NONNE H., LECHEMINANT P., CAPPONI S., ROUX G., BOULAT E.</b>	Competing orders in one-dimensional half-filled multicomponent fermionic cold atoms: The Haldane-charge conjecture.	Physical Review B 84	125123
2011	A	<b>TRAMBLY DE LAISSARDIERE G., MAYOU D.</b>	Electronic Transport in Graphene: Quantum Effects and Role of Local Defects.	Mod. Phys. Lett. B 25	1019-1028
2011	A	<b>TRAMBLY DE LAISSARDIERE G., OGUEY C., MAYOU D.</b>	Breakdown of semi-classical conduction theory in approximants of the octagonal tiling.	Phil. Mag. 91	2778-2786
2011	B	<b>AVAN J., KULISH P.P., ROLLET G.</b>	Reflection $K$ -matrices related to Temperley-Lieb $R$ -matrices.	Theoretical and Mathematical Physics 169 (2)	1-13
2011	B	<b>CANTINI L., SPORTIELLO A.</b>	Proof of the Razumov-Stroganov conjecture.	Journal of Combinatorial Theory, Series A, 118(5)	1549-1574
2011	B	<b>FILALI G., KITANINE N.</b>	Spin Chains with Non-Diagonal Boundaries and Trigonometric SOS Model with Reflecting End.	Symmetry, Integrability and Geometry: Methods and Applications Vol. 7	12-22
2011	C	<b>ALEXANDER K.S., DUNLOP F., MIRACLE-SOLE S.</b>	Layering and wetting transitions for an SOS interface.	J. Stat. Phys. 142	524-577
2011	C	<b>De CONINCK J., DUNLOP F., HUILLET Th.</b>	Metastable wetting.	J. Stat. Mech.: Th. And Exp.	P06013
2011	C	<b>HUILLET Th.</b>	On a Markov chain model for population growth subject to rare catastrophic events.	Physica A: Stat. Mech. and its Applications 390, Issue 23	4073-4086

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2011	C	<b>HUILLET Th.</b>	A Bose-Einstein Approach to the Random Partitioning of an Integer.	J. Stat. Mech.: Th. And Exp.	P08021
2011	C	<b>HUILLET Th.</b>	Nonconservative diffusions on [0,1] with killing and branching. Applications to Wright-Fisher models with or without selection.	International Journal of Stochastic Analysis 2011	ID605068
2011	C	<b>HUILLET Th.</b>	On the Karlin-Kimura approaches to the Wright-Fisher diffusion with fluctuating selection.	J. Stat. Mech.: Th. and Exp.	P02016
2011	C	<b>HUILLET Th., MARTINEZ S.</b>	Duality and Intertwining for discrete Markov kernels: relations and examples.	Advances in Applied Probability 43.2	437-460
2011	C	<b>HUILLET Th., MARTINEZ S.</b>	Discrete evolutionary genetics. Multiplicative fitnesses and the mutation-fitness balance.	Applied Mathematics 2 (1)	11-22
2011	C	<b>HUILLET Th., MOEHLE M.</b>	Population genetics models with skewed fertilities: a forward and backward analysis.	Stochastic Models, Issue 27(3)	521-554
2011	C	<b>KOUKIOU F.</b>	An Example of Dependence in a Physical Model.	Statistics 45 (1)	43-47
2011	D	<b>BAL G., JOLLIVET A., LANGMORE I., MONARD F.</b>	Angular average of time-harmonic transport solutions.	Comm. Partial Differential Equations 36(6)	1044-1070
2011	D	<b>BILLAUD B., TRUONG T.T.</b>	Lamb shift of interactive electron-hole pairs in spherical semiconductor quantum dots.	Computational Material Science 50	998-1008
2011	D	<b>DANDOLOFF R., ATANASOV V.</b>	Quantum anticentrifugal potential in a bent waveguide.	Ann. der Physik	201100136
2011	D	<b>DANDOLOFF R., JENSEN B., SAXENA A.</b>	Transparent quantum waveguide.	Am. J. Phys. 79(5)	532
2011	D	<b>DANDOLOFF R., SAXENA A.</b>	Heisenberg spins on a bilayer connected by a neck and other geometries with a characteristic length scale.	J. Phys. A: Mat. Theor. 44	045203
2011	D	<b>ESQUE J., OQUEY C., de BREVERN A.G.</b>	Comparative Analysis of Threshold and Tessellation Methods for Determining Protein Contacts.	J. Chem. Inf. Model. 51 (2)	493-507
2011	D	<b>FOSTER D.P.</b>	Generalised vertex-interacting self-avoiding walks on the square lattice: phase diagram and critical behaviour.	Physical Review E. 84	032102
2011	D	<b>HEBEY E., TRUONG T.T.</b>	Static Klein-Gordon-Maxwell-Proca systems in 4-dimensional closed manifolds.	Journal für die reine und angewandte Mathematik	1-28
2011	D	<b>JENSEN B., DANDOLOFF R.</b>	Remarks on quantum mechanics on surfaces.	Phys. Lett. A 375	448
2011	D	<b>NGUYEN M.K., TRUONG T.T., MORVIDONE M., ZAIDI H.</b>	Scattered radiation emission imaging.	International Journal of Biomedical Imaging Vol. 2011	ID 913893
2011	D	<b>OQUEY C.</b>	Long range topological correlations in cellular patterns.	Colloids and Surfaces A: Physicochemical and Engineering Aspects 382 (1-3)	32-35
2011	D	<b>TRUONG T.T., NGUYEN M.K.</b>	On new V-line Radon transforms in R2 and their inversion.	J. Phys. A: Math. Theor.44	075206
2011	D	<b>TRUONG T.T., NGUYEN M.K.</b>	Radon transforms on generalized cormack's curves and a new Compton scatter tomography modality.	Inverse Problems 27	
2011	D	<b>von FERBER C., FOSTER D.P., HSU H-P., KENNA R.</b>	Scaling behaviour of lattice animals at the upper critical dimension.	Eur. Phys. J B. 83	245
2010	A	<b>LOMBARDI M., MATZKIN A.</b>	Dynamical entanglement as a signature of chaos.	Las. Phys. 20	1215
2010	A	<b>MAGNIN Y., AKABLI K., DIEP H.T., HARADA I.</b>	Monte Carlo Study of the Spin Transport in Magnetic Materials.	Computational Materials Science 49	s204-s209

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2010	A	<b>NGO V.T., TIEN HOANG D., DIEP H.T.</b>	First-Order Transition in XY Fully Frustrated Simple Cubic Lattice.	Phys. Rev. E 82	041123
2010	A	<b>NONNE H., BOULAT E, CAPPONI S., LECHEMINANT P.</b>	Competing orders in the generalized Hund chain model at half-filling.	Physical Review B 82	155134
2010	A	<b>NONNE H., LECHEMINANT P., CAPPONI S., ROUX G., BOULAT E.</b>	Haldane charge conjecture in one-dimensional multicomponent fermionic cold atoms.	Physical Review B81, Rapid Communications	020408@
2010	A	<b>OKO M., OKADA K., HARADA I., AKABLI K., DIEP H.T.</b>	Theoretical Study of XMCD Spectra for Field-induced Valance Transition in Eu Compounds.	J. Phys. Soc. Jpn 79	024713
2010	A	<b>TRAMBLY DE LAISSARDIERE G., MAYOU D., MAGAUD L.</b>	Localization of Dirac Electrons in Rotated Graphene Bilayers.	Nano Lett. 10(3)	804-808
2010	B	<b>ANICETO I., AVAN J., JEVICKI A.</b>	Poisson structures of Calogero moser and Ruijsenaars-Schneider models.	Journal of Physics A. 43	185201
2010	B	<b>AVAN J., DOIKOU A., SFETSOS K.</b>	Systematic classical continuum limits of integrable spin chains and emerging novel dualities.	Nucl. Phys. B840	469-490
2010	B	<b>FILALI G., KITANINE N.</b>	The partition function of the trigonometric SOS model with a reflecting end.	J. Stat. Mech.	L06001
2010	C	<b>ALEXANDER K.S., DUNLOP F., MIRACLE-SOLE S.</b>	Layering in the Ising model.	J. Stat. Phys. 141	217-241
2010	C	<b>DUNLOP F.</b>	Space-time correlations of a Gaussian interface.	Markov Processes Relat. Fields 16	205-222
2010	C	<b>GOBRON Th., SAADA E.</b>	Couplings, attractiveness and hydrodynamics for conservative particle systems.	Annales de l'Institut Henri Poincaré (B), Probabilités et Statistiques 46 (4)	11321177
2010	C	<b>HUILLET Th.</b>	Random walk with long-range interaction with a barrier and its dual : Exact results.	Journal of Computational and Applied Mathematics 233	2449-2467
2010	C	<b>HUILLET Th.</b>	Siegmund duality with applications to the neutral Moran model conditioned on never being absorbed.	J. Phys. A: Math. Theor. 43	375001
2010	C	<b>HUILLET Th.</b>	On discrete-time multiallelic evolutionary dynamics driven by selection.	Journal of Probability and Statistics vol. 2010	580762
2010	D	<b>BAL G., JOLLIVET A.</b>	Stability for time-dependent inverse transport.	SIAM J. Math. Anal. 42 (2)	679-700
2010	D	<b>BAL G., JOLLIVET A., JUGNON V.</b>	Inverse transport theory of photoacoustics.	Inverse Problems 26 (2)	025011
2010	D	<b>BILLAUD B., TRUONG T.T.</b>	Some theoretical results on semiconductor spherical quantum dots.	Computational Materials Science 49 (1)	S322-S326
2010	D	<b>COURBAGE M., DURT T., SABERI FATHI S.M.</b>	Dissipative dynamics of the kaon decay process.	Communications in Nonlinear Science and Numerical Simulations 15 (1)	71-78
2010	D	<b>DANDOLOFF R., SAXENA A., JENSEN B.</b>	Geometry Induced Potential on a 2D-section of a Wormhole: Catenoid.	Phys. Rev. A 81	014102
2010	D	<b>ESQUE J., OQUEY C., de BREVERN A.G.</b>	A Novel Evaluation of Residue and Protein Volumes by Means of Laguerre Tessellation.	Journal of chemical information and modeling 50 (5)	947-960
2010	D	<b>FOSTER D.P.</b>	Surface critical behaviour of the Interacting Self-Avoiding Trail on the square lattice.	J. Phys. A: Math. Theor. 43	335004

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2010	D	<b>HEDDI B., OGUÉY C., LAVELLE C., FOLOPPE N., HARTMANN B.</b>	Intrinsic flexibility of B-DNA : the experimental TRX scale.	NAR 38 (3)	1034-1047
2010	D	<b>JENSEN B., DANDOLOFF R.</b>	Quantum mechanics of a constrained electrically charged particle in the presence of electric currents.	Phys. Rev. A 81	049905
2010	D	<b>MORVIDONE M., NGUYEN M.K., TRUONG T.T., ZAIDI H.</b>	A novel V-line Radon transform and its imaging applications.	International Journal of Biomedical Imaging, Special issue on Mathematical Methods for Images and Surfaces Vol. 2010	
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Année	Thème	Auteur(s)	Titre article	Revue	Pages
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2009	B	<b>BAUER M., BERNARD D., CANTINI L.</b>	Off-Critical SLE2 and SLE4 : a field theory approach.	Journal of Statistical Mechanics	07037
2009	B	<b>KITANINE N., KOZLOWSKI K.K., MAILLET J.M.</b>	Riemann-Hilbert Approach to a Generalised Sine Kernel and Applications.	Comm. Math. Phys. 291(3)	691-761
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2009	C	<b>HUILLET Th.</b>	Reversing the drift of the Ehrenfest urn model and three conditionings.	J. Phys. A : Math. and Theor. 42	345005
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<b>Année</b>	<b>Thème</b>	<b>Auteur(s)</b>	<b>Titre article</b>	<b>Revue</b>	<b>Pages</b>
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2009	D	<b>SABERI FATHI S.M., TRUONG T.T.</b>	On the inverse of the directional derivative operator in $R^N$ .	J. Phys. A: Math. Theor. 42(4)	045203
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