

1. Ahmed, E.H., Ingram, S., Kirova, T., Salihoglu, O., Huennekens, J., Qi, J., Guan, Y. & Lyyra, A.M. 2011, "Quantum Control of the Spin-Orbit Interaction Using the Autler-Townes Effect", *Physical Review Letters*, vol. 107, no. 16, pp. 163601.
2. Alicki, R. & Giraldi, F. 2011, "A quantum model of almost perfect energy transfer", *Journal of Physics B-Atomic Molecular and Optical Physics*, vol. 44, no. 15, pp. 154020.
3. Avdeenkova, A., Goriely, S. & Kamerdzhev, S. 2011, "Impact of the Phonon Coupling on the Dipole Strength and Radiative Neutron Capture", *Journal of the Korean Physical Society*, vol. 59, no. 2, pp. 967-970.
4. Avdeenkova, A., Goriely, S., Kamerdzhev, S. & Krewald, S. 2011, "Self-consistent calculations of the strength function and radiative neutron capture cross section for stable and unstable tin isotopes", *Physical Review C*, vol. 83, no. 6, pp. 064316.
5. Avdeenkova, A. 2011, "Resonance collisions of ultracold polar molecules in a microwave field", *Icono 2010: International Conference on Coherent and Nonlinear Optics*, vol. 7993, pp. 799314.
6. Avdeenkova, A.V. & Zloshchastiev, K.G. 2011, "Quantum Bose liquids with logarithmic nonlinearity: self-sustainability and emergence of spatial extent", *Journal of Physics B-Atomic Molecular and Optical Physics*, vol. 44, no. 19, pp. 195303.
7. Barashenkov, I.V. & Zemlyanaya, E.V. 2011, "Soliton complexity in the damped-driven nonlinear Schrodinger equation: Stationary to periodic to quasiperiodic complexes", *Physical Review E*, vol. 83, no. 5, pp. 056610.
8. Barashenkov, I.V. & Zemlyanaya, E.V. 2011, "Travelling solitons in the externally driven nonlinear Schrodinger equation", *Journal of Physics A-Mathematical and Theoretical*, vol. 44, no. 46, pp. 465211.
9. Barashenkov, I.V., Zemlyanaya, E.V. & van Heerden, T.C. 2011, "Time-periodic solitons in a damped-driven nonlinear Schrodinger equation", *Physical Review E*, vol. 83, no. 5, pp. 056609.
10. Basu, P., Chakraborty, B. & Scholtz, F.G. 2011, "A unifying perspective on the Moyal and Voros products and their physical meanings", *Journal of Physics A-Mathematical and Theoretical*, vol. 44, no. 28, pp. 285204.

11. Bernardeau, F., Pitrou, C. & Uzan, J. 2011, "CMB spectra and bispectra calculations: making the flat-sky approximation rigorous", *Journal of Cosmology and Astroparticle Physics*, , no. 2, pp. 015.
12. Brink, J. 2011, "Formal solution of the fourth order Killing equations for stationary axisymmetric vacuum spacetimes", *Physical Review D*, vol. 84, no. 10, pp. 104015.
13. Carlson, W., Koch, R.d.M. & Lin, H. 2011, "Nonplanar integrability", *Journal of High Energy Physics*, , no. 3, pp. 105.
14. Cho, H.T., Doukas, J., Naylor, W. & Cornell, A.S. 2011, "Quasinormal modes for doubly rotating black holes", *Physical Review D*, vol. 83, no. 12, pp. 124034.
15. Choudhury, S.R., Cornell, A.S. & Roussos, J.D. 2011, "Analysis of the lepton polarisation asymmetries of $(B)_{\text{over-bar}} \rightarrow (K)_{\text{over-bar}}(2)(1430)l^{+}l^{-}$ decay", *European Physical Journal C*, vol. 71, no. 9, pp. 1751.
16. Cornell, A.S. & Liu, L. 2011, "Evolution of the CKM matrix in the universal extra dimension model", *Physical Review D*, vol. 83, no. 3, pp. 033005.
17. Cornell, A.S. & Liu, L. 2011, "Scaling of the Higgs self-coupling and bounds on the extra dimension", *Physical Review D*, vol. 84, no. 3, pp. 036002.
18. Creutzig, T., Hikida, Y. & Ronne, P.B. 2011, "The FZZ duality with boundary", *Journal of High Energy Physics*, , no. 9, pp. 004.
19. Creutzig, T., Hikida, Y. & Ronne, P.B. 2011, "Supergroup - extended super Liouville correspondence", *Journal of High Energy Physics*, , no. 6, pp. 063.
20. Dappiaggi, C., Pinamonti, N. & Porrmann, M. 2011, "Local Causal Structures, Hadamard States and the Principle of Local Covariance in Quantum Field Theory", *Communications in Mathematical Physics*, vol. 304, no. 2, pp. 459-498.
21. De Comarmond, V., Koch, R.d.M. & Jefferies, K. 2011, "Surprisingly simple spectra", *Journal of High Energy Physics*, , no. 2, pp. 006.
22. Dey, T.K. 2011, "Exact large R-charge correlators in ABJM theory", *Journal of High Energy Physics*, , no. 8, pp. 066.
23. Ellis, G.F.R., van Elst, H., Murugan, J. & Uzan, J. 2011, "On the trace-free Einstein equations as a viable alternative to general relativity", *Classical and Quantum Gravity*, vol. 28, no. 22, pp. 225007.

24. Fantoni, R., Malijevsky, A., Santos, A. & Giacometti, A. 2011, "Phase diagram of the penetrable-square-well model", *Epl*, vol. 93, no. 2, pp. 26002.
25. Fantoni, R., Giacometti, A., Sciortino, F. & Pastore, G. 2011, "Cluster theory of Janus particles", *Soft Matter*, vol. 7, no. 6, pp. 2419-2427.
26. Fantoni, R., Malijevsky, A., Santos, A. & Giacometti, A. 2011, "The penetrable square-well model: extensive versus non-extensive phases", *Molecular Physics*, vol. 109, no. 23-24, pp. 2723-2736.
27. Fantoni, R. & Mueller-Nedebock, K.K. 2011, "Field-theoretical approach to a dense polymer with an ideal binary mixture of clustering centers", *Physical Review E*, vol. 84, no. 1, pp. 011808.
28. Fantoni, R. & Santos, A. 2011, "Nonadditive hard-sphere fluid mixtures: A simple analytical theory", *Physical Review E*, vol. 84, no. 4, pp. 041201.
29. Galli, P., Goldstein, K., Katmadas, S. & Perz, J. 2011, "First-order flows and stabilisation equations for non-BPS extremal black holes", *Journal of High Energy Physics*, , no. 6, pp. 070.
30. Gangopadhyay, S., Saha, A. & Scholtz, F.G. 2011, "Voros product and the Pauli principle at low energies", *Journal of Physics A-Mathematical and Theoretical*, vol. 44, no. 17, pp. 175401.
31. Georgiou, G. & Giataganas, D. 2011, "Gluon scattering amplitudes in finite temperature gauge/gravity dualities", *Journal of High Energy Physics*, , no. 8, pp. 045.
32. Giataganas, D. 2011, "Semiclassical strings in marginally deformed toric AdS/CFT", *Journal of High Energy Physics*, , no. 12, pp. 051.
33. Giataganas, D. 2011, "String Solutions in Sasaki-Einstein Manifolds and their marginally deformed versions", *Nuclear Physics B-Proceedings Supplements*, vol. 216, pp. 227-228.
34. Giovannoni, D., Murugan, J. & Prinsloo, A. 2011, "The giant graviton on AdS(4) x CP3 - Another step towards the emergence of geometry", *Journal of High Energy Physics*, , no. 12, pp. 003.
35. Giraldi, F. & Petruccione, F. 2011, "Anomalous decay of an atom in structured band gap reservoirs", *Revista Mexicana De Fisica*, vol. 57, no. 3, pp. 99-106.
36. Giraldi, F. & Petruccione, F. 2011, "Designing Reservoirs for $1/t$ Decoherence of a Qubit", *Open Systems & Information Dynamics*, vol. 18, no. 3, pp. 289-299.

37. Giraldi, F. & Petruccione, F. 2011, "Reservoir for inverse-power-law decoherence of a qubit", *Physical Review a*, vol. 83, no. 1, pp. 012107.
38. Heiss, W.D. & Nazmitdinov, R.G. 2011, "Spectral singularities and zero energy bound states", *European Physical Journal D*, vol. 63, no. 3, pp. 369-373.
39. Kamerdzhev, S.P., Avdeenkov, A.V. & Voitenkov, D.A. 2011, "Quasiparticle-Phonon Interaction in the Theory of Finite Fermi Systems", *Physics of Atomic Nuclei*, vol. 74, no. 10, pp. 1478-1490.
40. Kastner, M. 2011, "Diverging Equilibration Times in Long-Range Quantum Spin Models", *Physical Review Letters*, vol. 106, no. 13, pp. 130601.
41. Kastner, M. & Mehta, D. 2011, "Phase Transitions Detached from Stationary Points of the Energy Landscape", *Physical Review Letters*, vol. 107, no. 16, pp. 160602.
42. Koch, R.d.M., Dessen, M., Giataganas, D. & Mathwin, C. 2011, "Giant graviton oscillators", *Journal of High Energy Physics*, , no. 10, pp. 009.
43. Koch, R.d.M., Jevicki, A., Jin, K. & Rodrigues, J.P. 2011, "AdS(4)/CFT3 construction from collective fields", *Physical Review D*, vol. 83, no. 2, pp. 025006.
44. Koch, R.D.M., Mohammed, B.A.E. & Smith, S. 2011, "Nonplanar Integrability: Beyond the $Su(2)$ Sector", *International Journal of Modern Physics a*, vol. 26, no. 26, pp. 4553-4583.
45. Kofman, L., Uzan, J. & Pitrou, C. 2011, "Perturbations of generic Kasner spacetimes and their stability", *Journal of Cosmology and Astroparticle Physics*, , no. 5, pp. 011.
46. Lazoudis, A., Kirova, T., Ahmed, E.H., Qi, P., Huennekens, J. & Lyyra, A.M. 2011, "Electromagnetically induced transparency in an open V-type molecular system", *Physical Review a*, vol. 83, no. 6, pp. 063419.
47. Liu, L. 2011, "Dynamics of the Weyl scale invariant non-BPS $p=3$ brane", *Physics of Atomic Nuclei*, vol. 74, no. 12, pp. 1684-1689.
48. Luo, F., Olive, K.A. & Uzan, J. 2011, "Gyromagnetic factors and atomic clock constraints on the variation of fundamental constants", *Physical Review D*, vol. 84, no. 9, pp. 096004.
49. Masuku, M. & Rodrigues, J.P. 2011, "Laplacians in polar matrix coordinates and radial fermionization in higher dimensions", *Journal of Mathematical Physics*, vol. 52, no. 3, pp. 032302.

50. Mayer, K., Tichy, M.C., Mintert, F., Konrad, T. & Buchleitner, A. 2011, "Counting statistics of many-particle quantum walks", *Physical Review a*, vol. 83, no. 6, pp. 062307.
51. Mehta, D. & Kastner, M. 2011, "Stationary point analysis of the one-dimensional lattice Landau gauge fixing functional, aka random phase XY Hamiltonian", *Annals of Physics*, vol. 326, no. 6, pp. 1425-1440.
52. Murugan, J. & Prinsloo, A. 2011, "ABJM dibaryon spectroscopy", *Journal of High Energy Physics*, , no. 5, pp. 129.
53. Nichols, D.A., Owen, R., Zhang, F., Zimmerman, A., Brink, J., Chen, Y., Kaplan, J.D., Lovelace, G., Matthews, K.D., Scheel, M.A. & Thorne, K.S. 2011, "Visualizing spacetime curvature via frame-drag vortexes and tidal tendexes: General theory and weak-gravity applications", *Physical Review D*, vol. 84, no. 12, pp. 124014.
54. Obodo, K.O., Andrew, R.C. & Chetty, N. 2011, "Modification of the band offset in boronitrene", *Physical Review B*, vol. 84, no. 15, pp. 155308.
55. Olive, K.A., Peloso, M. & Uzan, J. 2011, "Wall of fundamental constants", *Physical Review D*, vol. 83, no. 4, pp. 043509.
56. Owen, R., Brink, J., Chen, Y., Kaplan, J.D., Lovelace, G., Matthews, K.D., Nichols, D.A., Scheel, M.A., Zhang, F., Zimmerman, A. & Thorne, K.S. 2011, "Frame-Dragging Vortexes and Tidal Tendexes Attached to Colliding Black Holes: Visualizing the Curvature of Spacetime", *Physical Review Letters*, vol. 106, no. 15, pp. 151101.
57. Polyakov, D. 2011, "Higher spins and open strings: Quartic interactions", *Physical Review D*, vol. 83, no. 4, pp. 046005.
58. Polyakov, D. 2011, "String model for AdS gravity and higher spins", *Physical Review D*, vol. 84, no. 12, pp. 126004.
59. Pumulo, N., Sinayskiy, I. & Petruccione, F. 2011, "Non-equilibrium thermal entanglement for a three spin chain", *Physics Letters a*, vol. 375, no. 36, pp. 3157-3166.
60. Salagaram, T. & Chetty, N. 2011, "Enhancing the understanding of entropy through computation", *American Journal of Physics*, vol. 79, no. 11, pp. 1127-1132.
61. Sepehrinia, R. & Sheikhan, A. 2011, "Numerical Simulation of Anderson Localization", *Computing in Science & Engineering*, vol. 13, no. 3, pp. 74-82.
62. Sinayskiy, I., Pumulo, N. & Petruccione, F. 2011, "Nonequilibrium thermal entanglement for simple qubit systems", *Revista Mexicana De Fisica*, vol. 57, no. 3, pp. 128-132.

63. Uken, D.A., Sergi, A. & Petruccione, F. 2011, "Stochastic simulation of long-time nonadiabatic dynamics", *Physica Scripta*, vol. T143, pp. 014024.