

1. Abdalgabar, A., Cornell, A.S., Deandrea, A. & McGarrie, M. 2016, "Natural supersymmetry and unification in five dimensions", *Journal of High Energy Physics*, , no. 1.
2. Abdulsalam, M. & Joubert, D. 2016, "Structural, electronic and optical properties of TcX<sub>2</sub> (X = S, Se, Te) from first principles calculations", *Computational Materials Science*, vol. 115, pp. 177-183.
3. Abdulsalam, M. & Joubert, D.P. 2016, "Electronic and optical properties of MX<sub>3</sub> (M = Ti, Zr and Hf; X = S, Se) structures: A first principles insight", *Physica Status Solidi B-Basic Solid State Physics*, vol. 253, no. 5, pp. 868-874.
4. Abdulsalam, M. & Joubert, D.P. 2016, "Optical spectrum and excitons in bulk and monolayer MX<sub>2</sub> (M=Zr, Hf; X=S, Se)", *Physica Status Solidi B-Basic Solid State Physics*, vol. 253, no. 4, pp. 705-711.
5. Ali, A.M.A., Koch, R.d.M., Tahiridimbisoa, N.H. & Mahu, A.L. 2016, "Interacting double coset magnons", *Physical Review D*, vol. 93, no. 6, pp. 065057.
6. Angeletti, F. & Touchette, H. 2016, "Diffusions conditioned on occupation measures", *Journal of Mathematical Physics*, vol. 57, no. 2, pp. 023303.
7. Athenodorou, A., Bennett, E., Bergner, G., Elander, D., Lin, C.-D., Lucini, B. & Piai, M. 2016, "Large mass hierarchies from strongly-coupled dynamics", *Journal of High Energy Physics*, , no. 6, pp. 114.
8. Cinti, F. 2016, "Incommensurability Effects on Dipolar Bosons in Optical Lattices", *Journal of Low Temperature Physics*, vol. 182, no. 5-6, pp. 153-161.
9. Connor, L., Sievers, J. & Pen, U. 2016, "Non-cosmological FRBs from young supernova remnant pulsars", *Monthly Notices of the Royal Astronomical Society*, vol. 458, no. 1, pp. L19-L23.
10. Gangopadhyay, S. 2016, "Minimal Length Effects in Black Hole Thermodynamics from Tunneling Formalism", *International Journal of Theoretical Physics*, vol. 55, no. 1, pp. 617-624.
11. Goldstein, K., Jejjala, V. & Nampuri, S. 2016, "The hot attractor mechanism: decoupling without deep throats", *Journal of High Energy Physics*, , no. 4, pp. 026.
12. Goyal, S.K., Ibrahim, A.H., Roux, F.S., Konrad, T. & Forbes, A. 2016, "The effect of turbulence on entanglement-based free-space quantum key distribution with photonic orbital angular momentum", *Journal of Optics*, vol. 18, no. 6, pp. 064002.

13. Joyce, M., Morand, J. & Viot, P. 2016, "Attractor nonequilibrium stationary states in perturbed long-range interacting systems", *Physical Review E*, vol. 93, no. 5, pp. 052129.
14. Koch, R.d.M., Mathwin, C. & van Zyl, H.J.R. 2016, "LLM magnons", *Journal of High Energy Physics*, , no. 3, pp. 110.
15. Koch, R.d.M. & Ramgoolam, S. 2016, "Interactions as intertwiners in 4D QFT", *Journal of High Energy Physics*, , no. 3, pp. 165.
16. Koch, R.d.M., Tahiridimbisoa, N.H. & Mathwin, C. 2016, "Anomalous dimensions of heavy operators from magnon energies", *Journal of High Energy Physics*, , no. 3, pp. 156.
17. Kovacs, S., Sato, Y. & Shimada, H. 2016, "On membrane interactions and a three-dimensional analog of Riemann surfaces", *Journal of High Energy Physics*, , no. 2, pp. 50.
18. Lee, C., Dieleman, F., Lee, J., Rockstuhl, C., Maier, S.A. & Tame, M. 2016, "Quantum Plasmonic Sensing: Beyond the Shot-Noise and Diffraction Limit", *Acs Photonics*, vol. 3, no. 6, pp. 992-999.
19. Li, A.C.Y., Petruccione, F. & Koch, J. 2016, "Resummation for Nonequilibrium Perturbation Theory and Application to Open Quantum Lattices", *Physical Review X*, vol. 6, no. 2, pp. 021037.
20. Malek, E., Murugan, J. & Shock, J.P. 2016, "The information metric on the moduli space of instantons with global symmetries", *Physics Letters B*, vol. 753, pp. 660-663.
21. Mapasha, R.E., Molepo, M.P., Andrew, R.C. & Chetty, N. 2016, "Defect charge states in Si doped hexagonal boron-nitride monolayer", *Journal of Physics-Condensed Matter*, vol. 28, no. 5, pp. 055501.
22. Mapasha, R.E., Molepo, M.P. & Chetty, N. 2016, "Ab initio studies of isolated hydrogen vacancies in graphane", *Physica E-Low-Dimensional Systems & Nanostructures*, vol. 79, pp. 52-58.
23. Nguimdo, G.M.D., Manyali, G.S., Abdusalam, M. & Joubert, D.P. 2016, "Structural stability and electronic properties of AgInS<sub>2</sub> under pressure", *European Physical Journal B*, vol. 89, no. 4, pp. 90.
24. Pellicane, G., Megnidio-Tchoukouegno, M., Mola, G.T. & Tsige, M. 2016, "Surface enrichment driven by polymer topology", *Physical Review E*, vol. 93, no. 5, pp. 050501.

25. Perez-Garcia, B., McLaren, M., Goyal, S.K., Hernandez-Aranda, R.I., Forbes, A. & Konrad, T. 2016, "Quantum computation with classical light: Implementation of the Deutsch-Jozsa algorithm", *Physics Letters a*, vol. 380, no. 22-23, pp. 1925-1931.
26. Pucci, L., Roy, A. & Kastner, M. 2016, "Simulation of quantum spin dynamics by phase space sampling of Bogoliubov-Born-Green-Kirkwood-Yvon trajectories", *Physical Review B*, vol. 93, no. 17, pp. 174302.
27. Semin, V. & Petruccione, F. 2016, "Minimalistic analytical approach to non-Markovian open quantum systems", *Epl*, vol. 113, no. 2, pp. 20004.
28. Semina, I. & Petruccione, F. 2016, "The simulation of the non-Markovian behaviour of a two-level system", *Physica A-Statistical Mechanics and its Applications*, vol. 450, pp. 395-402.
29. Tupper, G.B., Govender, I., De Klerk, D.N., Richter, M.C. & Mainza, A.N. 2016, "Testing of a new dynamic Ergun equation for transport with positron emission particle tracking", *AIChE Journal*, vol. 62, no. 3, pp. 939-946.
30. Wudarski, F.A. & Chruscinski, D. 2016, "Markovian semigroup from non-Markovian evolutions", *Physical Review a*, vol. 93, no. 4, pp. 042120.
31. Wudarski, F.A. & Petruccione, F. 2016, "Exchange of information between system and environment: Facts and myths", *Epl*, vol. 113, no. 5, pp. 50001.
32. Zayas, L.A.P., Rodgers, V.G.J. & Whiting, C.A. 2016, "Supergravity solutions with AdS(4) from non-Abelian T-dualities", *Journal of High Energy Physics*, , no. 2, pp. 061.
33. Zhang, Y., Roux, F.S., Konrad, T., Agnew, M., Leach, J. & Forbes, A. 2016, "Engineering two-photon high-dimensional states through quantum interference", *Science Advances*, vol. 2, no. 2, pp. e1501165.