

***Publications on quantum information theory
by Tony Sudbery***

Entanglement and density-functional theory: testing approximations on Hooke's atom (with J. P. Coe and I. d'Amico). [arXiv:0712.3819](#); *Phys. Rev. B* **77**, 205122 (1977); *Virtual J. Nanoscale Science and Technology* (June 2008).

The disentangling power of unitaries (with L. Clarisse, S. Ghosh and S. Severini). [arXiv:quant-ph/0611075](#); *Phys. Lett. A* **365**, 400–402 (2007).

Alice and Bob get away with it: a playlet. [arXiv:physics/0606108](#); *Am. J. Phys.* **75**, 720–723 (2007); *Virtual J. Quantum Information*, July 2007.

The power of entanglement. *Bulg. J. Phys.* **33**, 10–21 (2006).

Compatibility of subsystem states (with P. Butterley and J. Szulc). [arXiv:quant-ph/0407227](#); *Found. Phys.* **36**, 83–101 (2006).

Entangling power of permutations (with L. Clarisse, S. Ghosh and S. Severini). [arXiv:quant-ph/0502040](#); *Phys. Rev. A* **72**, 012314/1–7 (2005); *Virtual J. Nanoscale Science and Technology* (July 2005)

Searching for highly entangled multi qubit states (with I. D. K. Brown, S. Stepney and S. L. Braunstein). *J. Phys. A* **38**, 1119–1131 (2005).

One-qubit reduced states of a pure many-qubit state: polygon inequalities (with A. Higuchi and H. A. Carteret). [arXiv:quant-ph/0209085](#); *Phys. Rev. Lett.* **90**, 107902-1–3 (2003).

Polynomial entanglement invariants: solution.
<http://www.imaph.tu-bs.de/qi/problems/3.html#Solution>.

On local invariants of pure 3-qubit states.
[arXiv:quant-ph/0001116](#); *J. Phys. A* **34**, 643–652 (2001).

Multipartite generalisation of the Schmidt decomposition (with H. A. Carteret and A. Higuchi). [quant-ph/0006125](#); *J. Math. Phys.* **41**, 7932–7939 (2000).

How entangled can two couples get? (with A. Higuchi).
[arXiv:quant-ph/0005013](#); *Phys. Lett. A* **273**, 213–7 (2000).

Local symmetry properties of pure 3-qubit states (with H. A. Carteret).
[arXiv:quant-ph/0001091](#); *J. Phys. A* **33**, 4981–5002 (2000).

Multiparticle entanglement (with H. A. Carteret, N. Linden and S. Popescu).
Found. Physics **29**, 527–552 (1999).

Non-local properties of multi-particle density matrices (with N. Linden and S. Popescu). [arXiv:quant-ph/9801076](#); *Phys. Rev. Lett.* **83**, 243–247 (1999).