

Pell's Equation

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I have decided to move all the string theory papers to a separate blog. Just a short reading list for now¹.

While there is a procedure for solving equations like $x^2 - 7y^2 = 1$ but there is little understanding beyond running steps of that procedure.

Why is that?

References

- (1) Adam R. Brown, Leonard Susskind, Ying Zhao. **Quantum Complexity and Negative Curvature.** [arXiv:1608.02612](#)
- (2) Michael Freedman, Matthew Headrick. **Bit threads and holographic entanglement.** [arXiv:1604.00354](#)
- (3) Steven Gubser **Evolution of Segmented Strings** [arXiv:1601.08209](#)
- (4) Akshay Venkatesh **Sparse equidistribution problems, period bounds, and subconvexity.** [arXiv:math/0506224](#)
- (5) Caroline Series **The Modular Surface and Continued Fractions** J. London Math. Soc. (1985) s2-31 (1): 69-80.
- (6) David Mumford **Lectures on Theta I** (on his web-site)
- (7) Don Zagier **Elliptic Modular Forms and Their Applications** (on his web-site)

¹The other experiment is posting this on the front-page, seeing if maybe I can write just a little bit neater.