

Examples: 2+1 Duality

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One very modern incarnation of the Fractional Quantum Hall effect is that of 2+1 dualities.¹

¹Encouraged by this year's Noble Prize in Physics, merely jumping into the 2016 literature here. We can say something like this "In attempting to learn FQHE and Chern-Simon's theory, I instead learned blah blah blah". And off we go...

References

- (1) Nathan Seiberg, T. Senthil, Chong Wang, Edward Witten. **A Duality Web in 2+1 Dimensions and Condensed Matter Physics** [arXiv:1606.01989](#)
- (2) Andreas Karch, David Tong **Particle-Vortex Duality from 3d Bosonization** [arXiv:1606.01893](#)
- (3) David Tong **Lectures on the Quantum Hall Effect** [arXiv:1606.06687](#)
- (4) Andreas Karch, Brandon Robinson, David Tong **More Abelian Dualities in 2+1 Dimensions** [arXiv:1609.04012](#)