

## Anyons and 3d dualities

*Tuesday, 11 July 2017 15:00 (1 hour)*

Recent studies of Chern-Simons-Matter (CSM) theories have unveiled an infinite web of dualities among these theories. While consistency within the web provides strong evidence for the dualities over a range of parameters, few explicit checks go beyond the strict infinite  $N$  limit. In this talk I will briefly review this web of dualities and some of the tests it has been subjected to. I will then advocate the study of CSM theories in the non-relativistic regime where they describe (strongly) interacting anyons in a trap. In this regime some observables can be evaluated exactly providing further evidence for the aforementioned dualities.

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