

## Cluster algebras from 2d gauge theories

*Tuesday, 19 August 2014 10:30 (1 hour)*

In the first part of the talk we study some dualities of two-dimensional supersymmetric  $N=(2,2)$  gauge theories, reminiscent of 4d Seiberg duality, focusing on chiral and twisted chiral rings and the so-called sphere partition function. In the second part we observe that, when applied to quiver gauge theories, those dualities realize the cluster algebras of Fomin and Zelevinsky in their full completeness, with consequences in physics and mathematics.

### Summary

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