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## Gauged linear sigma models on the Omega-deformed two-sphere

*Friday 7 August 2015 14:25 (20 minutes)*

I will discuss a new exact formula for supersymmetric correlation functions of gauged linear sigma models (GLSM) with  $\mathcal{N} = (2, 2)$  supersymmetry on the two-sphere with a twist. More precisely, the  $S^2$  supersymmetric background is an “Omega-background” which generalizes the familiar A-twist. The formula simplifies previous results and leads to new results for non-Abelian gauge theories. It provides an interesting new tool to study strongly coupled 2d supersymmetric gauge theories with matter.

(Based on 1504.06308 with S. Cremonesi and D. S. Park.)

### Oral or Poster Presentation

Oral

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