

## **BPS (shifted) quiver Yangians and representations from colored crystals**

*Monday, 31 May 2021 17:30 (1h 15m)*

I will first explain how to construct BPS algebras for string theory on general toric Calabi-Yau threefolds, based on the 3D colored crystals that describe BPS states of the system. The resulting algebras are shifted quiver Yangians  $Y(Q,W)$  that are associated with the quiver and the superpotential of the theory. Then I will show how to construct representations of a shifted quiver Yangian from general subcrystals of the canonical crystal, and how the shape of the subcrystal determines the framing of the quiver.

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