



Seminar/Talk

# The skein algebra of the 4-punctured sphere from curve counting

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The Kauffman bracket skein algebra is a quantization of the algebra of regular functions on the  $SL_2$  character of a topological surface. I will explain how to realize the skein algebra of the 4-punctured sphere as the output of a mirror symmetry construction based on higher genus Gromov-Witten invariants of a log Calabi-Yau cubic surface. This leads to the proof of a previously conjectured positivity property of the bracelets bases of the skein algebras of the 4-punctured sphere and of the 1-punctured torus.

**Thursday, November 25, 2021 02:00pm - 04:00pm**

<https://mathseminars.org/seminar/AGNTISTA>



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<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.