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talk 12: Factorization algebras and a chiral 6d/2d correspondence

Wednesday 2 April 2025 09:00 (50 minutes)

The holomorphic twist (minimal BPS sector) of 6-dimensional N=(2,0) superconformal symmetry enhances to an infinite-dimensional symmetry algebra of exceptional type. Using the theory of factorization algebras we explain how this symmetry algebra plays an essential role in a chiral version of the famous 6d N=(2,0) /2d CFT correspondence. From the perspective of the holomorphic twist of the 6d theory, we further propose a generalization of related theorems of Nakajima and Grojnowski on the vertex algebra structure present in the cohomology of the Hilbert scheme of points.

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