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Two mathematical applications of little string theory

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I will describe two mathematical applications of little string theory. The first leads to a variant of AGT correspondence that relates q -deformed W -algebra conformal blocks to K-theoretic instanton counting. This correspondence can be proven for any simply laced Lie algebra. The second leads to a variant of quantum Langlands correspondence which relates q -deformed conformal blocks of an affine Lie algebra and a W -algebra, associated to a Langlands dual pair of Lie groups. The proof of the correspondence for simply laced Lie algebras involves, in a crucial way, the recently discovered elliptic stable envelopes.

Summary

Presenter: AGANAGIC, Mina (UC Berkeley)

Session Classification: Plenary session