Contribution ID: **15** Type: **not specified**

Two mathematical applications of little string theory

Friday 1 July 2016 14:30 (50 minutes)

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