

String Journal Club

UCLA

Friday, February 27th @ 10:30am
Schwinger Lounge

“Computing superconformal index of 4d $N=2$ SCFTs using chiral algebras and monodromy operator”

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Abstract: The superconformal index of a 4d $N=2$ SCFT counts the spectrum of BPS operators of the theory. Recent developments allow for the computation of the Schur limit of the superconformal index using chiral algebras and also from the monodromy operator defined on the Coulomb branch of the theory. In this talk, I will explain a concrete proposal for computing the Macdonald index, which is another refined limit of the superconformal index, using the chiral algebra. I will also explain a proposal for computing the Macdonald index for a class of Argyres-Douglas theories using the monodromy operator.