



## ICTS String Seminar

**Title** : Invariants and correlators in 4d SCFTs

**Speaker** : Aditya Jain (Ashoka University, Haryana)

**Date** : Friday, 29 November 2024

**Time** : 3:00 PM (IST)

**Abstract** : We use auxiliary polarization spinors and the superinversion transformation, along with superspace methods to construct super conformally invariant structures in 4d  $N=1$  SCFTs. These invariants are used to express general 3-point correlators of symmetric traceless superfield operators in terms of a few unknown coefficients. Since these invariant structures have a definite parity, they amount to parity-even as well as parity-violating contributions to the SCFT correlators. We also impose the conservation (shortening) condition on the operators to restrict the form of 3-point correlators of supercurrents. This talk is based on our recent work [\[2411.01903\]](#).

**Venue** : Emmy Noether Seminar Room

Zoom Link: <https://icts-res-in.zoom.us/j/88092766911?pwd=R3ZrVk9yeW96ZmO4ZG9KRzVhenRkZz09>

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