



ICTS String Seminar

- Title** : Invariants and correlators in 4d SCFTs
- Speaker** : Aditya Jain (Ashoka University, Haryana)
- Date** : Friday, 29 November 2024
- Time** : 3:30 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=R3ZrVk9yeW96ZmQ4ZG9KRzVhenRKZz09>
Meeting ID: 880 9276 6911
Passcode: 232322