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TATA INSTITUTE OF FUNDAMENTAL RESEARCH

ICTS String Seminar

Title : Are moduli vacuum expectation values or parameters?

Speaker : Ashoke Sen (ICTS-TIFR, Bengaluru)

Date : Wednesday, 08 October 2025

Time : 3:30 PM (IST)

Abstract : Many string compactifications have moduli fields that can take different possible values at infinity. We address the question: given two compactifications that differ by the asymptotic values of the moduli, should we regard them as different theories or different states of the same theory? We fix a precise criterion that distinguishes between these two possibilities and show that the answer depends on whether the non-compact part of the space-time is asymptotically flat or asymptotically AdS. In the former case different values of asymptotic moduli give different states of the same theory while in the latter case they correspond to different theories.

Venue : Emmy Noether Seminar Room

Zoom Link: <https://icts-res-in.zoom.us/j/88092766911?pwd=R3ZrVk9yeW96ZmQ4ZG9KRzVhenRKZz09>

Meeting ID: 880 9276 6911

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