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

Supersymmetric deformations of $AdS_3 \times S^3$ and hair modes (Yogesh Srivastava)

Sunday 9 February 2025 11:30 (45 minutes)

Speaker: Yogesh Srivastava

Abstract: The 4D-5D connection allows us to view the near-horizon geometry as part of a 4D Black Hole or a 5D Black Hole. The discrepancy between the entropy/index in the two cases is resolved by introducing hair modes which live outside the horizon. After a review, we discuss the construction and analysis of modes in Poincare AdS_3 ×Sˆ3 which connect to hair modes in the full Black Hole spacetime. We do the same for global $AdS_3 X S^3$. We compare and contrast these near-horizon modes with analogous “hair” modes in other approaches.