School of Mathematics
Tata Institute of Fundamental Research

31 January, 2024

Ph.D. Thesis Defense

Speaker : ***Sagar Shrivastava***

Title : ***Alternate proofs of Classical branching rules***

Date & Time : ***Monday, 05 February, 2024 at 5.00 p.m. (Via Zoom Only)***

Abstract

We provide alternative proofs for the classical branching rules for the highest weight representations of a complex reductive group G when they are restricted to a closed regular equal rank reductive subgroup H. The pairs (G,H) under consideration are (GL_{n+1},GL_n), $(Spin(2n+1),Spin(2n))$, and $(Sp_{2n},Sp_{2n-2}\times Sp_2)$. The methodology developed will be specifically explained for the case of $(Sp_{2n},Sp_{2n-2}\times Sp_2)$, where we will observe the final multiplicity space manifesting as a representation of $SL_2 = Sp_2$. Other than the Weyl character formula, this presentation will be self-contained.

Anuradha, Lalit
Anuradha Prajapati

Zoom Link and Credentials

`https://tifr-res-in.zoom.us/j/92001566674`

Meeting ID: 920 0156 6674

Passcode: 004631