Abstract:

B. Gross and D. Prasad first formulated their famous conjectures about the restriction of representations of discrete series representations in the original paper *Discrete series of an orthogonal group* \( G = \text{SO}_n \) when restricted to an orthogonal subgroup \( G' = \text{SO}_{n-1} \) published in 1992. In this lecture we consider representations \( \_ \) in the discrete spectrum of \( L^2(G=H) \) where \( G = \text{SO}(p,q) \) and \( H = G \_ \) for an involution \( \_ \) and their restriction to a subgroup \( G'=\text{SO}(p-1,q) \). I formulate similar conjectures relating the restriction to interlacing patterns and in the last part I discuss the evidence supporting these conjectures.

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