

SEMINAR ANNOUNCEMENT

Title: Riemann-Hilbert correspondence for
differential systems over Riemann surfaces

Speaker: Prof. Indranil Biswas, TIFR-Mumbai

Date and Time: March 16, 2020; 2:00 pm

Venue: PSB 3201, IISER-TVM

Abstract: Let G be a connected reductive affine algebraic group defined over C and \mathfrak{g} , its Lie algebra. We study the monodromy map from the space of \mathfrak{g} -differential systems on a compact connected Riemann surface Σ of genus $g \geq 2$ to the character variety of G -representations of the fundamental group of Σ . If the complex dimension of G is at least three, we show that the monodromy map is an immersion at the generic point. (Joint work with S. Dumitrescu.)