

Thursday June 8

10:00 - 12:00

Francis Bischoff

Title: The derived moduli stack of logarithmic flat connections.

Abstract:

After reviewing the classification of ODEs with Fuchsian singularities, I will present an explicit finite-dimensional model for the derived moduli stack of flat connections on C^k with logarithmic singularities along a weighted homogeneous Saito free divisor. I will focus in particular on the example of plane curve singularities of the form $x^p = y^q$. These moduli spaces are conjectured to admit shifted Poisson structures. I will discuss this conjectural picture and present some partial results. This talk will be based on the preprints [arXiv:2010.03685](https://arxiv.org/abs/2010.03685), [arXiv:2209.00631](https://arxiv.org/abs/2209.00631), [arXiv:2301.00962](https://arxiv.org/abs/2301.00962).