



# GEOMETRY & PHYSICS SEMINAR

4 dezembro | 14:00 | sala 6.2.33

## Projective structures and the geometry of the conformal limit

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### Abstract:

The classical non-abelian Hodge Correspondence is a gauge-theoretic construction that has allowed for the use of complex geometric methods in the study of representations of the fundamental group of a closed surface. The conformal limit was introduced by Gaiotto as a parameterized variation of this classical correspondence. In this talk, we will explore how, in the case of representations into  $SL(2, \mathbb{C})$ , this limit is related to complex projective structures. We will also use this relation to further our geometric understanding of the limiting process. This is joint work with Peter B. Gothen.

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