

Diffusion on the moduli space of p -adic Mumford curves

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In this talk a construction of pseudo-differential operators of Taibleson-Vladimirov type on the moduli space of Mumford curves of genus g over non-archimedean local fields is given by using the Gerritzen-Herrlich Teichmüller space of discrete representations of finitely generated free groups in g generators as projective linear transformations. Corresponding Cauchy problems are stated and solved.