



Universidade Federal da Paraíba
Centro de Ciências Exatas e da Natureza
Programa de Pós-Graduação *Stricto Sensu* em Física

Colóquio

“Isomonodromy, Painlevé Transcendents and Scattering of Black Holes”

RESUMO: We summarize recent developments in obtaining analytical expressions for the scattering coefficients of Kerr and Kerr-de Sitter black holes, using the isomonodromy method. These have a lot in common with the theory of Painlevé transcendents and integrable structures, and physically with recent developments in conformal field theories. We are able to derive implicit expressions in terms of Painlevé V and VI tau functions and more amenable analytical expressions in the near-extremal case

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8/mai/2015	16h00
Auditório da Pós-Graduação em Física (novo prédio)	