

Maximal functions, factorisation of symbols and multipliers between Toeplitz kernels

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When is a closed subspace of the Hardy space of the unit disk a Toeplitz kernel? Different answers can be given to this question by taking different points of view, which complement and clarify one another. In this talk we discuss various characterisations of Toeplitz kernels - through Riemann-Hilbert problems, maximal functions and multipliers - and their relations, highlighting the important role played, in the study of Toeplitz kernels, by conjugations and appropriate symbol factorisations.

This talk is based on joint work with Carlos Carteiro and Cristina Diogo.