



Seminario Rubio de Francia

Conferencia

por

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Título:

Periodic coordinates and a Magic Formula for Finite-gap CMV matrices

Resumen: We prove a bijective unitary correspondence between 1) the isospectral torus of almost-periodic, absolutely continuous CMV matrices having fixed finite-gap spectrum E and 2) periodic block-CMV matrices satisfying a *Magic Formula*. This latter class arises as E -dependent operator Möbius transforms of certain generating CMV matrices which are periodic up to a rotational phase; for this reason we call them “MCMV”. Naturally, this has also consequences for the associated Schur functions. We show that for any Schur function associated to a finite-gap CMV matrix (and therefore with almost periodic Verblunsky coefficients) there exists a more general Nevanlinna–Pick interpolation problem with periodic interpolation data.

The talk is based on a joint work with J. S. Christiansen and T. VandenBoom.

Fecha: Lunes, 26 de Noviembre de 2018.

Hora: 13:00 horas.

Lugar: seminario Rubio de Francia, edificio de Matemáticas, primera planta.

Web: http://www.unizar.es/analisis_matematico/seminario.html