ICMAT
INSTITUTO DE CIENCIAS MATEMÁTICAS

ANALYSIS & APPLICATIONS seminar

INVARIANT SUBSPACES FOR BISHOP OPERATORS

SPEAKER: Adrián Ubis (UAM)

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ORGANISER: UAM-ICMAT

ABSTRACT: In the fifties Bishop proposed the family $T_\alpha f\,(x) = xf\,(\{fx+\alpha\})$ acting on $L^2[0;1)$ as a possible source of operators without invariant subspaces. Years later Davie showed that T_α actually has invariant subspaces whenever α is not a Liouville number (so for almost all α).
In this talk I will speak about recent work with F. Chamizo, E. Gallardo and M. Monsalve in which we extend Davie's method to some Liouville numbers α and show that these techniques cannot work for every α.

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