

# SEMINARIO DE ANÁLISIS Y APLICACIONES

Jueves, 7 de marzo de 2019

14:30 h., Módulo 17 - Aula 520 (Depto. Matemáticas UAM)

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Invariant subspaces for Bishop  
operators

## Resumen:

In the fifties Bishop proposed the family  $T_\alpha f(x) = xf(\{x+\alpha\})$  acting on  $L^2[0, 1)$  as a possible source of operators without invariant subspaces. Years later Davie showed that  $T_\alpha$  actually has invariant subspaces whenever  $\alpha$  is not a Liouville number (so for almost all  $\alpha$ ).

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  $\alpha$  and show that these techniques cannot work for every  $\alpha$ .

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