

SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 5 de noviembre de 2021

10:30 h., ONLINE - URL: <https://us06web.zoom.us/j/87331146032>

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The non-resonant bilinear
Hilbert-Carleson operator

Resumen:

We introduce a new class of bilinear operators $\{BC_a\}_a$ acting as a merger between two classical objects in harmonic analysis: the bilinear Hilbert transform and the linear Carleson-Stein-Wainger operator. The two opposing features (modulation invariance versus a kernel maximally modulated by the exponential of an imaginary monomial) of BC_a require a simultaneous two-resolutions analysis and the use of a dilated time-frequency portrait. This is joint work with F. Bernicot, V. Lie, M. Vitturi.

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