

Date: April 24, 2024

Time: 15:00 CET

Room: UB iA (Universitat de Barcelona)

Neoplasticism and Suprematism in Harmonic Analysis

Antonio Córdoba

UAM - ICMAT

In commemoration of the Ferran Sunyer i Balaguer Prize 2024

Neoplasticism whose more conspicuous representative is P. Mondrian and Suprematism, of which K. Malevich is the best known exponent, are abstract pictorial styles which one encounter often in articles and monographs of Real Variables and Harmonic Analysis. The main purpose of this seminar will be to illustrate that connection through a set of problems (Covering Lemmas, Kakeya sets, Disc multiplier,...) which, in general, are well understood in dimension $n = 2$, but constitute an intriguing "terra incognita" in higher dimensions.