



NUMBER THEORY SESSION

ON THE EXCEPTIONAL SET OF TRANSCENDENTAL ENTIRE FUNCTIONS IN SEVERAL VARIABLES.

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Wednesday, February 07, 2024.
17h30 - 18h10

Online

Abstract.

In this work, among other things, we prove that any subset of $\overline{\mathbb{Q}}^m$ under complex conjugation and which contains the origin) is the exceptional set of un-countable many transcendental entire functions over \mathbb{C}^m with rational coefficients. This result solves a several variables version of a question posed by Mahler for transcendental entire functions.

JOINT WORK WITH ALVES, MARQUES, AND TROJOVISKY.

Keywords: Exception set, algebraic, transcendental, transcendental functions of several variables.

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