
SEMINARIO

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The injectivity of Borel map in Mandelbrojt Domains

Abstract: A Mandelbrojt region is a (not necessarily sectorial) connected open set D in the Riemann surface of the logarithm with 0 in its boundary, symmetric with respect to a direction and with a positive opening (in a precise sense).

In 1952, S. Mandelbrojt gave a characterization of the injectivity of the asymptotic Borel mapping for the class of functions admitting uniform \mathbb{M} -asymptotic expansion in these domains, where the control of the remainders is specified in terms of a given weight sequence \mathbb{M} of positive real numbers. We hope to extend this criterion to the Carleman-Roumieu ultraholomorphic class in D consisting of the holomorphic functions with uniformly bounded derivatives in terms of the sequence \mathbb{M} .

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**Presentación virtual webex
4 de Septiembre de 2020 (9:30)**

