



SEMINARIO

“PROFESOR FÉLIX MONDÉJAR”

DPTO. DE MATEMÁTICA APLICADA Y ESTADÍSTICA

CONFERENCIA

“Search for the Meaning of Set-valued Dynamics”

PONENTE: **PAVEL LUDVÍK**

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FECHA : Jueves, 12 de marzo de 2026

HORA: 12,00h.

LUGAR: Sala de I+D+I del Dpto. Puerta N° B028 – P. Baja del Edif. de la ETSII – Campus Muralla del Mar

RESUMEN:

The idea of measuring the topological entropy of set-valued, as opposed to single-valued, maps appears to originate in Mikhail Gromov’s 1976 preprint On the Entropy of Holomorphic Maps. This line of thought remained largely unnoticed until the mid-2010s, when it re-emerged in the paper Topological Entropy of Set-Valued Functions by James Kelly and Tim Tennant. Since then, numerous works – including several by Jan Andres and myself – have appeared.

The purpose of this talk is to summarize the most significant developments in this area. I will introduce topological entropy, invariant measures, measure-theoretic entropy, the variational principle, and other key properties of set-valued maps. Several examples and further generalizations will also be presented. I will conclude by outlining possible directions for future research.