

SEMINARIO

Alberto Lastra

Universidad de Alcalá.

SIM 124. Formal solutions to singularity perturbed q-difference equations.

Abstract: We establish the existence, uniqueness and q-Gevrey character of formal power series solutions of q-analogues of analytic doubly-singular equations. Using a new family of Nagumo norms adapted for q-differences we find new types of optimal divergence associated with these problems. We also provide some examples to illustrate our results. This is a joint work with S. A. Carrillo.

**Seminario A-125. Facultad de Ciencias.
2 de Febrero de 2024 (12:30)
Organiza: GIR ECSING - AFA**

