

SEMINARIO DE ANÁLISIS COMPLEJO Y APLICACIONES

Aristomenis Siskakis (Universidad Aristóteles,
Salónica, Grecia)

Integration operators on spaces of analytic functions

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Aula 520, Módulo 17 (Matemáticas)

Resumen: We will discuss integration operators of the form

$$T_g(f)(z) = \int_0^z f(\zeta)g'(\zeta) d\zeta,$$

known also as Volterra-type operators or generalized Cesàro operators. They are considered acting on spaces of analytic functions on the unit disc. The inducing symbol g , an analytic function on the disc, obviously determines their operator theoretic properties.

We will explain how these operators came up, discuss some of their general properties, and discuss their boundedness, compactness etc on the classical Hardy, Bergman, and other function spaces. Some of the recent research results will be mentioned, but the talk will be designed mostly as an introductory short course.