

# Seminario de Teoría de Números by Michel Waldschmidt



**Title:** Irrationality and transcendence of values of special functions

**Abstract:** There is no general result on the irrationality or transcendence of values of analytic functions: one needs to restrict to special functions. A number of results are known concerning analytic functions satisfying differential equations: we survey such results, including values of the exponential function, of elliptic or more generally abelian functions, of modular functions. We also present recent results dealing with the values of the E and G functions introduced by Siegel in 1929.

**Place:** Aula S05, FME, UPC

**Date:** 19/9/2016

**Hour:** 11:00am

**Biographical note:** Michel Waldschmidt is one of the top experts worldwide in transcendental number theory. In 1973 he became professor at [University of Paris VI](#) where he is now Professor Emeritus.

He was awarded the [Albert Châtelet Prize](#) in 1974, the [CNRS Silver Medal](#) in 1978, the Marquet Prize of [Academy of Sciences](#) in 1980 and the Special Award of the [Hardy–Ramanujan Society](#) in 1986.

From 2001 to 2004 he was president of the [Mathematical Society of France](#).

From 2005 to 2009 he was Vice President of CIMPA. He participates in the coordination of cooperation in mathematics with many countries, including [India](#) and [Middle East](#).