

INSTITUTUL DE MATEMATICA "SIMION STOILU" AL ACADEMIEI ROMANE

Conferința lunară

*Applications of Complex Analysis to
Counting Arithmetic Objects*

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Conferința va avea loc **Miercuri 18 septembrie 2019, ora 13:00** la sediul **IMAR**,
amfiteatrul "Miron Nicolescu", **parter**

Abstract: In this talk I will recall some standard tauberian theorems from complex analysis and I will explain how these theorems are used to study the distribution of objects of arithmetic interest, e.g., prime numbers, rational points, orders in number fields, etc, using zeta functions. The talk starts with Riemann's original sketch of the proof of the Prime Number Theory that led to the formulation of the Riemann's Hypothesis and ends with some recent progress made by the speaker in collaboration with several of his coauthors."