

The Unity of Mathematics

Examples from Transcendental Number Theory

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Michel Waldschmidt is an Emeritus Professor at Sorbonne University (Paris), where he has been teaching for the past 40 years. He specializes in Number Theory, focusing on Transcendental Numbers and

Diophantine Approximations. He has also published in Algebraic Geometry, Complex Analysis, Analytic Spaces, Special Functions, Field Theory, History, Biography et cetera. He is a highly cited researcher with 200 publications, including 16 Books, to his credit.

He has been actively promoting and popularizing mathematics in developing countries over the past few decades. He has lectured in more than 70 countries.

His hobbies include Ultra marathons, Nordic walk and trekking.

In this series three talk, , the speaker will demonstrate the Unity of Mathematics by way of walking through a garden of examples from various disciplines that are related to Transcendental Number Theory. Our tour will include: Diophantine approximation, Algebraic number theory, Differential equations, Special functions, Diophantine geometry, Arakelov theory, Geometry of numbers, Complex analysis (one or several variables), Hörmander $\bar{\partial}$ estimates, Commutative algebra, Seshadri's constant, Weil's conjecture on characters of type A and A_0 , ℓ -adic representations, p -adic analysis, Topology, Arithmetic complexity of polynomials, Dynamical systems, Automata theory, Algebraic combinatoric, Logic: model theory.

Date:	October 3 (Wednesday)	October 4 (Thursday)	October 5 (Friday)
Time:	3:30 PM	4 PM	3:30 PM
Venue:	Conference Hall, ISI Delhi	Seminar Room, SPS, JNU	Conference Hall, ISI Delhi

The talks will be largely independent - don't worry if you miss one!

The first talk would be accessible to a larger audience.

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