



TOR VERGATA
UNIVERSITÀ DEGLI STUDI DI ROMA

Dipartimento di Fisica



European Research Council
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Seminar

Wednesday, 21 June 2023 - h. 15:00

Fisica della Materia room (Department of Physics)

Prof. Alexei A. MAILYBAEV

IMPA, Rio de Janeiro

“Hidden scale invariance of turbulence at dissipation scales”

Abstract

The hidden scaling symmetry emerges under a certain rescaling (projection) of equations of motion. First, I recall the concept of hidden scale invariance in the inertial interval, where the statistical recovery of this symmetry yields the anomalous scaling (intermittency). Then, we discuss how the hidden symmetry interacts with dissipation, i.e. the symmetry gets either broken or restored in the extended sense. Finally, we discuss consequences for small-scale observables. This is the shell model study.

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