

Group of Interdisciplinary Theoretical Physics

***Prof. Ralph Metzler***

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**24 February 2023, at 12:00,**

**in room E of *Department of Physics and Chemistry*,  
Via Archirafi 36, Palermo**

**will give a talk entitled**

***Beyond Brownian Motion: from Data to Models***

Abstract

After a brief historical introduction to Brownian motion I will address recent experimental and simulations results on diffusive transport in complex systems, ranging from dynamics in single molecules, motion of molecules and tracers in living biological cells, to ants and birds. Data-science methods help us in identifying different physical processes encoded in experimental records and to extract physical parameters. I will provide an overview over different approaches and their performance in the context of diffusive motion.

INFO

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