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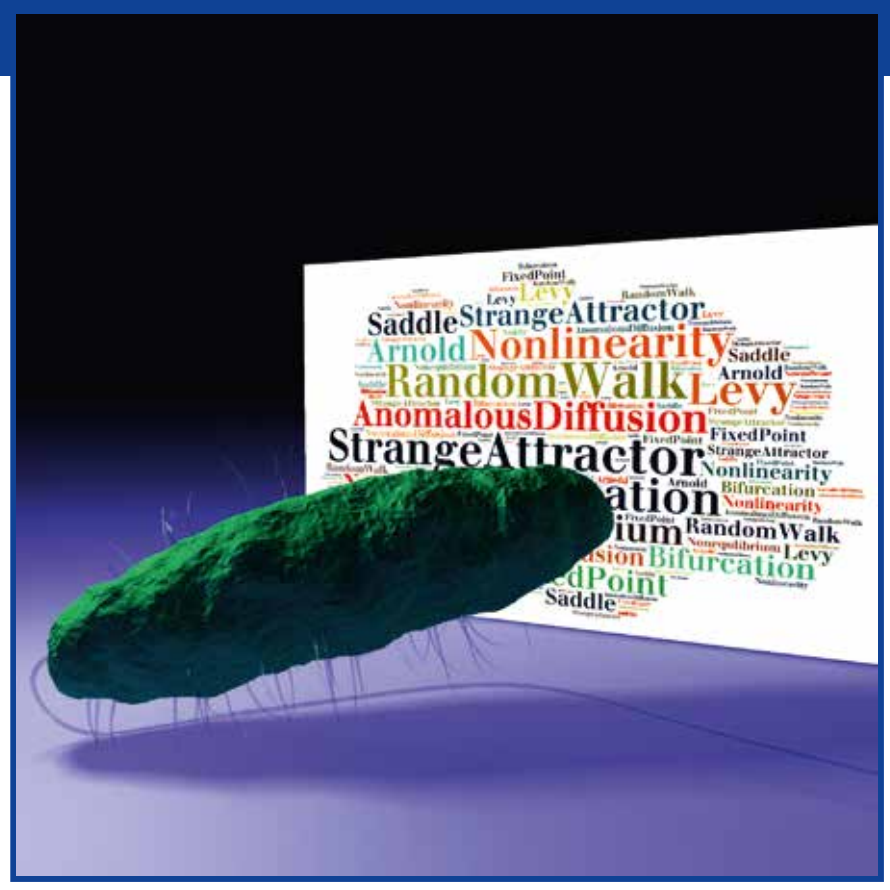
MAX-PLANCK-GESELLSCHAFT

Random Walks and Nonlinear Dynamics in the Life of Cells

Max Planck Institute for the Physics of Complex Systems

International Workshop
18 - 22 May 2015



Living cells know nothing about anomalous diffusion, nonlinearity, and bifurcations, but they spend their entire lives taking advantage of these features. This observation is supported by a growing number of experimental cell biology studies throughout the last decade.

The goal of our workshop is to bring together leading experts in cell biology and theoretical physics in order to tie recent advances in the experimental biophysics and state-of-the-art concepts of modern nonlinear dynamics and random-walk theory.

Topics include

- cell biophysics
- intracellular dynamics
- cellular motility
- anomalous diffusion
- nonlinear dynamics

Invited speakers

I. Aronson (US)
E. Barkai (IL)
C. Beta (DE)
E. C. Cox (US)
E. Frey (DE)
P. Friedl (NL)
R. Goldstein (UK)
S. Grill (DE)
P. Hänggi (DE)
T. Hyman (DE)
P. Iglesias (US)
M. Ivanchenko (RU)
P. Janmey (US)
F. Jülicher (DE)
G. Koenderink (NL)
J. Kondev (US)
K. Kruse (DE)
D.A. Lauffenburger (US)
D. Lubensky (US)
B. Maier (DE)
R. Metzler (DE)
L. Oddershede (DK)
D. Robert (UK)
S. Safran (IL)
E. Sahai (UK)
E.M. Schoetz-Collins (US)
T. Shimitzu (NL)
I. Tolic-Norrelykke (DE)
G.C.L. Wong (US)

Scientific coordinators

Sergey Denisov,
Augsburg, Germany

Lisa Manning,
Syracuse, US

Vasily Zaburdaev,
Dresden, Germany

Organisation

Mandy Lochar
MPIPKS

Applications received before 31 January 2015 are considered preferentially.

Applications are welcome and should be made by using the application form on the conference web page (please see URL below). The number of attendees is limited. The registration fee for the international workshop is 120 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

For further information please contact:
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We also offer individual fellowships (phd, postdoc, sabbatical). Applications are accepted continuously. For details, please check www.pks.mpg.de/visitors