



MAX-PLANCK-GESELLSCHAFT

Challenges in Nanoscale Physics of Wetting Phenomena

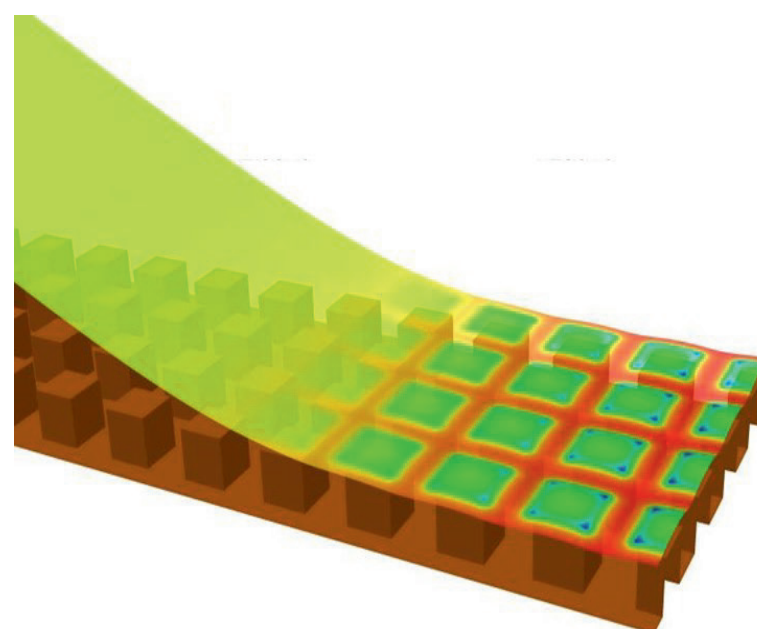
Max Planck Institute for the Physics of Complex Systems

International Workshop 26 - 30 August 2019

Following recent successes in bridging the dynamics of the contact line at the mesoscopic length scales to the macroscopic flow, this workshop focuses on contemporary approaches to wetting phenomena that involve probing them down to the nanoscale. The workshop aims to bring together new experimental techniques, theoretical tools, and computational approaches, allowing new insights into this old problem.

Key Questions:

- What are the range of length and time scales characterizing the interaction of the substrate with the two-phase flow?
- Which computational tools are more amenable to a multiscale organization?
- Can matching hydrodynamic theories to a molecular description of the contact line be done seamlessly?
- What are the most appropriate existing or to be developed experiments for benchmarking computational results?
- Can we make more educated suggestions on when to use which computational tools for a particular wetting system?



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Invited speakers:

*to be confirmed

Nikolaus Adams (DE)
Vladimir Ajaev (US)
Gustav Amberg (SE)
Günter Auernhammer (DE)
Elmar Bonaccorso (DE)
Daniel Bonn (NL)
Dieter Bothe (DE)
Andreas Carlson (NO)
Pierre Colinet (BE)
Joel de Coninck (BE)
Hang Ding (CN)
James Feng (CA)*
Jens Eggers (GB)
Guillaume Galliero (FR)
Stephen Garoff (US)
Karin Jacobs (DE)
Serafim Kalliadasis (GB)
Pirouz Kavehpour (US)
Hyoungsoo Kim (KR)
Joel Koplik (US)*
Satish Kumar (US)
Dominique Legendre (FR)
Chun Liu (US)
Ofer Manor (IL)
Glen McHale (GB)
Weiqing Ren (SG)

Ilia Roisman (DE)
Martin Shanahan (FR)*
Jie Shen (US)
Jacco Snoeijer (NL)*
Victor Starov (GB)
Paul Steen (US)
Peter Stephan (DE)
Yi Sui (GB)
Uwe Thiele (DE)
Mark Wilson (GB)
Stephen Wilson (GB)
Pengtao Yue (US)*
Stéphane Zaleski (FR)

Scientific coordinators:

Shahriar Afkhami
Newark, US

Tatiana Gambaryan-Roisman
Darmstadt, DE

Len Pismen
Haifa, IL

Organisation:

Jenny Kuehne
MPIPKS Dresden

Applications received before 26 May 2019 are considered preferentially.

Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited. The registration fee for the international workshop is 140 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.

For further information please contact:

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