Block Course “Multiscale Problems and Homogenization” at FU Berlin

Dear BMS students,

we would like to draw your attention on the new block course Multiscale Problems and Homogenization offered at Freie Universität Berlin by Prof. Claude Le Bris.

Prof. Le Bris is currently serving as a MATH+ Distingued Visiting Scholar.

The course will provide a comprehensive introduction to homogenization theory for multiscale problems with a special focus on problems in non-periodic media. The presentation encompasses both deterministic and probabilistic settings. It also mixes the most abstract aspects with some more practical aspects regarding the numerical approaches necessary to simulate such multiscale problems.

The lectures are intended for advanced undergraduate and graduate students of mathematics and engineering.

The block course is organized in cooperation with the collaborative reseach center CRC 1114 and consists of six sessions in total in the form of mathematical colloquia.

The kick-off lecture will take place on Thursday, 10 November in room SR 031 (Arnimallee 6) from 2.15 pm to 6 pm. The following lectures will be held every Thursday at the same time and place.

Current and former members of CRC 1114 will also give a talk during the following lectures:

17 Nov: Martin Heida: Homogenization on randomly perforated domains

24 Nov: Artur Stephan: EDP-convergence for gradient systems and applications to fast-slow chemical reaction systems

1 Dec: Helena Kremp: Periodic homogenization for singular SDEs with Lévy noise

15 Dec: Ana Djurdjevac: Rough paths and homogenization

The registration deadline is on **3 November**.

FU students can regularly register via Campus Management. Non-FU students can register via Whiteboard by using their HU or TU login credentials.

Best,
The BMS Office