LIFE IN THE LABORATORY

# Workshop IRTG « Computational Mechanics Techniques in High Dimensions »

## Annual workshop of the International Research Training Group (IRTG) between ENS Paris-Saclay and the Leibniz University of Hannover: CoMeTeNd - "Computational Mechanics Techniques in High Dimensions

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From 7 to 9 November 2022, the Laboratoire de Mécanique Paris-Saclay (LMPS) will host 20 researchers and doctoral students from the Leibniz University of Hanover (LUH) at the École normale supérieure Paris-Saclay for the first workshop of the international research group "Computational Mechanics Techniques in High Dimensions". Seventeen French and German researchers are participating in this group, which aims to develop new high-performance computing approaches for problems defined in high-dimensional parametric and stochastic spaces, multi-scale problems in space and time, and data-enhanced simulations.

This IRTG (International Research Training Group) started at the end of 2021 and is funded by the German Research Foundation (DFG) for theses in Hannover. It provides for three 3-year cohorts of 10 German and 10 French PhD students. In total, 60 doctoral students over 9 years will participate in this IRTG and will benefit from specific actions to prepare them for an international career in research (mobility, scientific work in an international context, organisation of summer schools by students, organisation of workshops, etc.). The first German doctoral students have already arrived at the LMPS for 6-month research stays.

This group is part of the dynamics of a previous IRTG "Virtual Materials and their Validation" (leaders Olivier Allix at ENS Paris-Saclay and Peter Wriggers at LUH) which ended in 2019 after 9 years of scientific collaboration and with nearly 60 participating PhD students.

Related to this new IRTG, the Franco-German Doctoral College "Sophisticated Numerical and Testing Approaches", linking ENS Paris-Saclay and the University of Hannover, was launched in 2019 and should be renewed in 2023.

**IRTG 2657 « Computational Mechanics Techniques in High Dimensions » holders: David Néron (LMPS, ENS Paris-Saclay) and Udo Nackenhorst (LUH)**

**Website : https://www.irtg2657.uni-hannover.de (https://www.irtg2657.uni-hannover.de)**