The new excellence cluster STRUCTURES at Heidelberg

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This colloquium gives an overview of the ideas and topics driving the newly approved research cluster STRUCTURES at Heidelberg University. This cluster is a joint project of the Department of Physics and Astronomy and the Department of Mathematics and Computer Science, as well as the Interdisciplinary Center for Scientific Computing (IWR) at our university, together with HITS, MPI-A and MPI-K.

Within STRUCTURES, researchers ranging from experimental physics to pure mathematics collaborate to understand the emergence of structures in nature and in mathematical models, the efficient detection of structure in large data sets, and the use of physical structures as novel tools of computation.

The colloquium will be a joint presentation given by Manfred Salmhofer, Markus Oberthaler, Ralf Klessen, and Anna Wienhard.