

The Mathematical Center for Science and Technology
Institute of Mathematics
of the Polish Academy of Sciences

invites you to the
SEMINAR



On Monday, 3 June 2019 at 3.00 pm.
at IM PAN, Śniadeckich 8, in room 321

Prof. Rolf Jeltsch (Seminar for Applied
Mathematics, ETH Zurich)
will give a lecture

***Recent developments on numerical solutions for
hyperbolic systems of conservation laws***

In 1757 Euler developed the famous Euler equations describing the flow of a compressible gas. This is a system of hyperbolic conservation laws in three space dimensions. However until recently one could not show convergence of numerical schemes to the “classical” weak entropy solutions. By adapting the concept of measure - valued and statistical solutions to multidimensional systems Siddhartha Mishra and his coauthors could recently show convergence of numerical schemes. Mishra has presents these results at the ICM 2018 in Rio de Janeiro. After a brief introduction to the field these developments will be described.

From 2.30 pm. we invite you to a cup of tea or coffee in room 409.

The Organizers