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DK Seminar

November 18, 2015, 14:00 - 14:45
University of Vienna
Oskar-Morgenstern-Platz 1, HS 2.

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The WED approach to dissipative problems and applications

Given a target dissipative problem, the so-called Weighted Energy-Dissipation (WED) procedure consists in defining a parameter dependent functional over entire trajectories and proving that its minimizers converge (up to subsequences) to solutions to the target problem as the parameter goes to zero.

We illustrate the abstract procedure for a variety of dissipative problems and we apply the WED formalism to check qualitative properties of solutions and comparison principles for some classes of dissipative equations.