

Qualitative properties of weak solutions to partial differential equations

In winter term 2017–2018 is the lecture course "Qualitative Properties of Weak Solutions to Partial Differential Equations NMMA583" *preliminarily* scheduled to

Wednesday 9:00 in lecture room K12.

The schedule can be changed according to the possibilities of students and lectures. In case that Wednesday 9:00 is not compatible with your schedule, please contact us via email (below).

The lecture course will be devoted to the recently developed existence theory for very weak solutions to nonlinear elliptic systems of partial differential equations. The existence of very weak solution to linear problems (e.g. the Laplace equation) already belongs among the classical results in the theory of partial differential equation. We shall show in details how these results can be extended also to the nonlinear world, solving thus the 30 year open problem. The lecture covers (but also requires) many parts of the harmonic analysis and theory of partial differential equations.

If needed, the lectures will be delivered in Czech:)

We are looking forward to seeing you at the lecture,

M. Bulíček a P. Kaplický

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