

Karlsruher PDE-Seminar

The supercritical Lane-Emden equation and its gradient flow

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In joint work with Simon Blatt and Melanie Rupflin we lay out a functional analytic framework for the Lane-Emden equation $-\Delta u = u|u|^{p-2}$ in the supercritical regime when $p > \frac{2n}{n-2}$ and establish Morrey estimates for solutions to the heat flow as well as existence of partially regular tangent maps at blow-up points.

Termin: Donnerstag, 5. Juni 2014, 17:30 Uhr

Ort: 1C-03, Allianz-Gebäude 05.20

Gastgeber: Die Dozenten des Schwerpunkts Partielle Differentialgleichungen