



Einladung zum Oberseminar Mathematik in den Naturwissenschaften

Julius-Maximilians-Universität Würzburg
Lehrstuhl für Mathematik in den Naturwissenschaften

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Qualitative properties for solutions to subcritical fourth order systems

In this talk we prove some qualitative properties of singular solutions to a class of strongly coupled systems involving a Gross–Pitaevskii-type nonlinearity. On the technical level, we use the moving sphere method to classify the limit blow-up solutions to our system. Additionally, applying asymptotic analysis techniques, we show that these solutions are indeed the local models near the isolated singularity. We also introduce a new fourth order nonautonomous Pohozaev functional, whose monotonicity properties yield improvement for the asymptotics results due to R. Soranzo.

Ort: Zoom video conference

Zeit: Mittwoch, 30.06.2021 um 14:15 Uhr

You are cordially invited to this lecture. Request the Zoom link from
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gez. Anja Schlömerkemper