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DK Seminar

Mar 08, 2017, 14:15 - 15:45
Vienna University of Technology,
Freihaus, green area, 4th floor, 101C

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Large time behavior in defective Fokker-Planck equations

We are looking at Fokker-Planck equations with linear drift and are interested in the large time behavior of solutions. Our focus lies on cases in which the drift term is defective, this means we have a drift matrix with a non-trivial Jordan block. Similar to a linear ODE system, this leads to a convergence rate of solutions that is not purely exponential. To get sharp decay estimates the usual methods of entropy-entropy production inequalities fail. We circumvent this difficulty, by splitting the solution and making use of faster decay rates on subspaces.