

Oberseminar Nichtlineare Differentialgleichungen

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A remark on the asymptotic behavior of solutions of the compressible Navier-Stokes system on a half space

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Abstract: In this talk I will consider the asymptotic behavior of strong solutions of the compressible Navier-Stokes system on a half space under the nonslip boundary condition. It is known that the asymptotic leading term of the solution is given by a solution of the linearized system. I will show that the second order term in the asymptotics is given by a term caused by a nonlinear effect, which does not appear in the asymptotics of solutions on the whole space. This talk is based on a joint work with T. Kobayashi (Univ. Osaka), R. Nakasato (Shinshu Univ.) and M. Okita (Kurume College).

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