第２２０回 広島数理解析セミナー （２０１７年度）

Hiroshima Mathematical Analysis Seminar No.220

日時 ： **１２月８日（金）１６：３０～１７：３０**

場所 ： **広島大学理学部 Ｂ７０７**

講師 ： 西原　健二 氏 （早稲田大学）

題目 ： The Cauchy problem for semilinear damped wave equations

要旨 ： In this talk we consider the Cauchy problem for the semilinear damped wave equation. The property of solutions for the linear equation with constant coefficient damping is first observed, and the diffusion phenomenon of the solution is derived. Under this observation, we want to consider the semilinear equation with the dissipation having (t, x) (time and position) dependent coefficient, and to obtain the critical exponent of the semilinear term. However, when the coefficient depends on both t and x, we have only a few results. So, we will give the survey on this topics and propose some problems remained open.

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