



MAFIA - the seminar you can't refuse

Wave equation with unbounded damping - energy decay rates

Petr Siegl

TU Graz

November 7, 2023

12:00–13:00

T212

Fakulta jaderná a fyzikálně inženýrská ČVUT
Trojanova 13, 12000 Praha

Abstract: We review our progress in the analysis of the wave equation with unbounded damping. In particular new resolvent estimates on the imaginary axis are obtained. The latter together with recent results in semigroup theory yield an energy decay as $t \rightarrow +\infty$. This approach generalizes previous results by R. Ikehata and H. Takeda relying on a multiplier method.