北京理工大學

数学与统计学院学术报告

Sharp late-time asymptotics for scalar quasilinear wave equations satisfying the weak null condition

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摘　要： We study the sharp late-time asymptotics for a class of quasilinear wave equations satisfying the weak null condition in three space dimensions. We prove that the asymptotics are very different from those for the equations satisfying the classical null condition. In particular, at leading order, the solution displays a continuous superposition of decay rates. Moreover, we show that any solution that decays faster than expected in a compact spatial region must vanish identically. The talk is based on joint work in progress with Jonathan Luk and Sung-Jin Oh.

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