

Blow Up For The Wave Equation With A Nonlinear Dissipation Of Cubic

Convolution Type In R-N

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Summary

It is shown that the solution of the wave equation in R-N with a nonlinear source of polynomial type and a nonlinear dissipation of nonlocal nature, blows up in finite time. Precisely, the dissipation is of cubic convolution type involving a singular kernel. (C) 2003 Elsevier Inc. All rights reserved.

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