论文

ASYMPTOTIC DECAY OF SOLUTIONS OF A NONLINEAR SCHRODINGER EQUATION IN R~3

Yao Jingqi

Institute of Mathematics, Academia Sinica, Beijing, China

摘要　　　In this paper we consider the following nonlinear Schr\"{o}dinger equation: $iu_t+\Delta u+|u|^2 u=0$ in $R\sim 3\times R\_+$, $u(0)=u\_0\in H\sim 2(R\sim 3)$. First we give a sufficient condition on the initial data which guarantees the existence of its global solutions. Then an asymptotic decay result of the solutions is obtained.

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·　　Yao Jingqi