

abstract

SPECIAL MEMBERS SEMINAR

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

We prove that the Cauchy problem for the Benjamin-Ono-Burgers equation is uniformly globally well-posed in H^1 for all " $\epsilon \in [0,1]$ ". Moreover, we show that for any $T > 0$ the solution converges in $C([0,T]; H^1)$ to that of Benjamin-Ono equation as " $\epsilon \rightarrow 0$ ". Our results give a new proof for the global well-posedness of the BO equation in $H^1(\mathbb{R})$ without using gauge transform, which was first obtained by Tao using gauge transform, and also solve the problem about the inviscid limit behavior in H^1 .