

A SHARP BILINEAR ESTIMATE FOR THE KLEIN-GORDON EQUATION IN TWO SPACE-TIME DIMENSIONS

Tohru Ozawa

Waseda University, Japan

`txozawa@waseda.jp`

Abstract

This talk is based on my recent joint-work with Keith Rogers. We prove a sharp bilinear estimate for the Klein-Gordon equation in two space-time dimensions. We also prove new estimates for the restriction of the Fourier transform to the whole hyperbola, which is noncompact and has a vanishing curvature at infinity.