國立交通大學應用數學系
學術演講公告

主講人：史習偉教授(成功大學數學系)

講　　題：Wellposedness and Illposedness for the 1D quantum
　　　　　　Zakharov system

時　　間：107 年 6 月 12 日(星期二) 下午 2:00 –3:00

地　　點：(光復校區) 科學一館 223 室

茶　　會：當天下午 1:30 (科學一館 205 室)

Abstract

　　The quantum Zakharov system describes the nonlinear interaction between the quantum Langmuir and quantum ion-acoustic wave. In the first part of the talk, I will introduce the result of the local wellposedness for the 1D quantum Zakharov system with the initial data belonging to $H^k \times H^\ell \times$

　　$H^{\ell-2}$. The strategy also improves the previous local wellposed result of the 1D classical Zakharov system.

　　In the second part, I will also discuss some illposed results of the 1D quantum Zakharov system which reveal the above wellposed region is almost sharp.

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