

國立交通大學應用數學系

學術演講公告

主講人：袁淵明 教授(靜宜大學資料科學暨大數據分析與應用學系)

講 題：Particle dynamics in the KP approximation

時 間：107 年 11 月 27 日(星期二) 下午 14:00 –15:00

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 KP equation arises in the model of the evolution of long ion-acoustic waves of small amplitude propagating in plasma under the effect of long transverse perturbations. The KP equation also can be treated as an extension of the KdV equation with two spatial dimensions and be applied to model for surface and internal water waves, shallow water waves, nonlinear optics. Enclosed in the KP model are relations that may be used to reconstruct the velocity field in the fluid below a given surface wave. In this talk, velocity fields associated to exact solutions of the KP equation are found, and particle trajectories are computed numerically.

敬請公告 歡迎參加

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