

NCTS Summer School: Modeling, Simulation & Analysis of Nonlinear Optics

September 4 - 8, 2015

Conference room, 3rd Floor, Dept. of Math, NCKU
R408, Dept. of Applied Math., NUK

Program

Sep. 4 (Fri.) (NCKU)

10:00 – 12:00 Ray-Kuang Lee (National Tsing Hua University)

Pattern formations, instability, and soliton dynamics in photo-refractive crystals

14:00 – 16:00 Tai-Chia Lin (National Taiwan University)

Modeling and Analysis of Solitons in photorefractive media

Sep. 5 (Sat.) (NCKU)

10:00 – 12:00 Hsi-Wei Shih (National Tsing Hua University)

Transfer of energy to short spatial scales in the cubic nonlinear Schrödinger equation

14:00 – 16:00 Tsung-fang Wu (National University of Kaohsiung)

Topological method approach to nonlinear Schrödinger equations

Sep. 6 (Sun.) (NCKU)

Free Discussion

Sep. 7 (Mon.) (NUK)

10:00 – 12:00 Wen-Wei Lin (National Chiao Tung University)

Eigendecomposition and Fast Eigensolver for Three Dimensional Maxwell's Equations

14:00 – 16:00 Yung-Fu Fang (National Cheng Kung University)

Talk 1: The adiabatic limit for the quantum Zakharov system

Talk 2: The solitary waves for the quantum Zakharov system

Sep. 8 (Tue.) (NUK)

10:00 – 12:00 Tsung-Min Hwang (National Taiwan Normal University)

FAME-matlab Package: Fast Algorithm for Maxwell equations

14:00 – 16:00 Yueh-Cheng Kuo (National University of Kaohsiung)

Introduction to Continuation Methods

Organizers

Tai-Chia Lin (National Taiwan University)

Yung-Fu Fang (National Cheng Kung University)

Tsung-fang Wu (National University of Kaohsiung)

Contact

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