

Edwin Ding

Department of Applied Mathematics, University of Washington, Seattle, WA 98195, USA

Phone: 206-685-9395

E-mail: ding@amath.washington.edu

EDUCATION

Ph.D., Applied Mathematics
Advisor: Prof. J. Nathan Kutz
University of Washington, expected 2011

MSc., Applied Mathematics
University of Washington, 2008

BEng., Mechanical Engineering
Advisor: Prof. K. W. Chow
University of Hong Kong, 2006

Refereed Journal Publications

- E. Ding, and J. N. Kutz, "Operating regimes, split-step modeling, and the Haus master mode-locking model," *Journal of the Optical Society of America B* **26**, 2290-2300 (2009)
- E. Ding, and J. N. Kutz, "Stability Analysis of the Mode-Locking Dynamics in a Laser Cavity with a Passive Polarizer," *Journal of the Optical Society of America B* **26**, 1400-1411 (2009)
- K. W. Chow, R. H. J. Grimshaw, and E. Ding, "Interactions of breathers and solitons in the extended Korteweg-de Vries equation," *Wave Motion*, Vol. 43(2), p158-166, 2005

Refereed Conference Proceedings

- E. Ding, and J. N. Kutz, "Stability Analysis of the Mode-Locking Dynamics in a Laser Cavity with a Passive Polarizer," *Proceedings of the World Congress of Engineering 2009*, Vol. II, 945-950
- E. Ding, and J. N. Kutz, "Stability Analysis of the Mode-Locking Dynamics in a Laser Cavity with a Passive Polarizer," *Proc. of SPIE* Vol. 7386, 73861Z (2009)
- E. Ding, and J. N. Kutz, "Stability Analysis of the Mode-Locking Dynamics in a Laser Cavity with a Passive Polarizer," *Nonlinear Optics: Materials, Fundamentals and Applications*, OSA Technical Digest (CD) (Optical Society of America, 2009), paper JTuB18

Conference Presentations

- *Verification of the Haus Master Mode-locking Model*, Complex Phenomena in Nonlinear Physics, 5th October 2009, Erice, Italy
- *Stability Analysis of the Mode-Locking Dynamics in a Laser Cavity with a Passive Polarizer*, SIAM Annual Meeting, 10th July 2009, Denver, U.S.A.
- *Mode-Locking Dynamics and Stability in a Laser Cavity with a Passive Polarizer*, Photonics North 2009, 25th May 2009, Quebec City, Canada
- *Interactions of breathers and solitons in the eKdV model*, Annual Conference of Hong Kong Society of Theoretical and Applied Mechanics, 11th March 06, Hong Kong Polytechnic University, Hong Kong

Invited Talks

- *Passive Mode-Locking Dynamics in Ring Cavity Lasers*, Department of Electronic and Information Engineering, Hong Kong Polytechnic University, 28th Aug 2009