



The Hong Kong University of Science and Technology

Department of Mathematics and Croucher Lab

A One-Day Workshop on Scientific Computing and Applied PDEs

9:00-9:30am	Prof. David J. Srolovitz University of Pennsylvania	Capillarity-Driven Interfaces and Contact Lines in Materials Science
9:30-10:00am	Prof. Fengbo Hang Courant Institute, New York University	Sign of Green's Function of a Fourth Order Operator
10:00-10:20am	Dr. Yichao Zhu HKUST	A Continuum Model for Dislocation Dynamics in Three Dimensions and Its Applications in Micropillars
10:20-10:50am	Coffee Break	
10:50-11:20am	Prof. Huazhong Tang Peking University	Direct Eulerian GRP Schemes for 1D & 2D (Special) Relativistic Hydrodynamics
11:20-11:50am	Prof. Weiguo Gao Fudan University	Efficient Algorithms for Transition State Calculation
11:50-12:10am	Prof. Congming Jin Zhejiang Sci-Tech University	Computing Transition Rates of Rare Events in Dislocation Dynamics
12:10 noon	Lunch	
2:30-3:00pm	Prof. Zhigang Xu Maurice Lamontagne Institute, Fisheries and Oceans Canada	The All-Source Green's Function and Its Applications to Storm Surges, Tides and Tsunamis
3:00-3:30pm	Prof. Xiaodong Yan University of Connecticut	Uniqueness of Critical One Dimensional Neel Wall
3:30-3:50pm	Dr. Shuyang Dai University of Pennsylvania	Dislocation Structure and Energy of Twist and Semi-coherent (111) FCC Boundaries
3:50-4:10pm	Dr. Boxi Xu HKUST	An Iterative Regularization Algorithm for Inverse Source Problem of Helmholtz Equations with Multiple Wavenumbers

Date: 11 August 2014, Monday

***Venue: Room 4505, Academic Building
(near lifts 25&26), HKUST***

All are welcome!