



The Hong Kong University of Science and Technology

Department of Mathematics

**A Half Day Workshop on Mathematical Modeling and
Scientific Computing for Materials Science Problems**

9:00-9:40	Prof. Zhijian Yang Wuhan University	An efficient boundary condition for molecular dynamics simulations
9:40-10:20	Prof. Xia Ji Chinese Academy of Sciences	Numerical methods for transmission eigenvalues and invisibility
10:20-10:40	Ms. Luchan Zhang HKUST	Energy of low angle grain boundaries based on continuum dislocation structure
<i>Tea Break</i>		
10:50-11:30	Prof. Sergei Dudarev UK Atomic Energy Authority	Stochastic conservative motion of dislocation loops
11:30-12:10	Prof. Chun Liu Penn State University	General diffusion with temperature effects
12:10-12:30	Ms. Xiaohua Niu HKUST	Dislocation climb models: from atomistic scheme to dislocation dynamics

Date: 28 December 2016, Wednesday

Time: 9:00 am -12:30 pm

***Venue: Room 3472, Discussion Room
(near lifts 25&26)
Academic Building, HKUST***

All are welcome!