For Favour of posting



### The Hong Kong University of Science and Technology

### **Department of Mathematics**

### **Mathematics Colloquium**

# On the Dirichlet principle for the fully nonlinear operators

By

## Dr. Yi WANG Johns Hopkins University

#### <u>Abstract</u>

In this talk, we will discuss the Dirichlet principle for two fully nonlinear operators. One of them arises from the conformal deformation problem on manifolds with boundary which includes prescribing  $s_k curvature equation$ . We use conformally invariants as the key technical tool to prove the Dirichlet principle. The other operator is the *k*-Hessian operator. We construct the matching boundary integral for it to prove Dirichlet principle. This is joint work with Jeffrey Case.

Date:	Monday, 29 January 2018
Time:	3:30 p.m. – 4:30 p.m.
Venue:	<i>Room 4475, Academic Building (near Lifts 25&amp;26), HKUST</i>

All are welcome!

The speaker is a candidate for a faculty position