

The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on PDE

A fractional curvature flow on Sⁿ

by

Prof. Xuezhang CHEN Nanjing University

<u>Abstract</u>

We first recall some techniques of scalar curvature flow on Sⁿ developed in my previous paper joint with Professor Xingwang Xu (Invent. Math. 2012). Next, we extend such a flow approach to prove a perturbation result of the fractional Nirenberg problem, i.e. prescribing fractional Q-curvature problem on Sⁿ for n >= 3 and the fractional exponent $\frac{1}{2} < \sigma < 1$. This is joint with Pak Tung Ho and Jingang Xiong.

- Date: Friday, 12 July 2019
- Time: 11:00a.m. 12:00noon
- Venue: Room 3472, Academic Building (near Lifts 25 - 26), HKUST

All are welcome!