

## MATH-IMS Joint Pure Mathematics Colloquium Series The Chinese University of Hong Kong

*This Colloquium Series in Pure Mathematics is organized by the Department of Mathematics and the Institute of Mathematical Sciences (IMS) at The Chinese University of Hong Kong. The series focuses on all areas of pure mathematics together with theoretical developments and applications.*

**Date:** December 18, 2023 (Monday)  
**Time:** 3:30PM-4:30PM (Hong Kong Time)  
**Venue:** AB1 501a

### Some recent results on conformally invariant equations

*Speaker: Professor Yanyan Li  
Rutgers University*

**Abstract:** We will present some recent work on conformally invariant nonlinear elliptic equations. This includes results on Liouville type theorems, study of isolated singularities of solutions, existence and nonexistence of smooth solutions.

**Bio:** Professor Yanyan Li is a Distinguished Professor at Rutgers University, and the Director of the Center for Nonlinear Analysis. Prof. Li received his B.Sc. Degree from the University of Science and Technology of China in 1982 and the M.S. degree from Institute of Systems Science, Academia Sinica in 1988. In 1988, Prof. Li obtained his PhD from Courant Institute of Mathematical Sciences, under the supervision of Prof. Louis Nirenberg. Prof. Li's main research interest is nonlinear partial differential equations and their applications in geometry and other areas. Prof. Li was an invited speaker at the International Congress of Mathematicians in 2002. His fundamental contributions are widely recognized by the international community, he was elected a Sloan Fellow (1993), Fellow of the American Mathematical Society (2012) and the Simons Fellow (2020). Prof. Li is also an ISI Highly Cited Researcher and he has been serving as the editor-in-chief for Analysis in Theory and Applications and also on the editorial board of many prestigious journals including e.g. Advances in Mathematics, Calculus of Variations and PDE and IMRN.