



**THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY**

**Department of Mathematics**

**SEMINAR ON PDE**

**Translating solitons to the power-of-Gauss  
curvature flow**

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**Abstract**

The evolution of convex surfaces by powers of the Gauss curvature is a fully nonlinear parabolic equation. In particular, its translating solitons are complete convex graphs of solutions to a Monge-Ampere type equation. Hence, the classification of translators is a Liouville type theory for a Monge-Ampere type equation. In this talk, we address the existence and classification of translating surfaces by sub-affine-critical powers of the Gauss curvature.

**Date : 1 April 2022 (Friday)**

**Time : 9:00am**

**Zoom Meeting : <https://hkust.zoom.us/j/99273149445> (Passcode: 309990)**

*All are Welcome!*