



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

**Department of Mathematics**

**SEMINAR ON PDE**

**A model on tumor growth with nutrients**

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**Abstract**

We discuss a model that describes tumor growth with nutrient, where the tumor density satisfies an "incompressibility" condition. The model, which can be formulated as a Hele-Shaw type free boundary problem, generates evolution of tumor patches, where its density is uniform. We will discuss interesting features on the dynamics of tumor patch evolution, some established results, and some open questions.

**Date: 26 September 2025 (Friday)**

**Time: 9:30am**

**Zoom Meeting: <https://hkust.zoom.us/j/91228297810> (Passcode: 274784)**

*All are Welcome!*