Analysis and PDE Seminar

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TITLE: Boundary spike/layer solutions of chemotaxis models

**Date**: Dec 5th, 2023 (Tuesday)  
**Time**: 10am-11am (Hong Kong time)  
11am-12noon (Korea time)

**Link to ZOOM**: [https://unist-kr.zoom.us/j/3170659442](https://unist-kr.zoom.us/j/3170659442)  
Meeting ID: 317 065 9442  
Password: APDE21

**Abstract.** In this talk, we shall report some progress made on boundary spike or layer solutions of chemotaxis models with physical boundary conditions: zero-flux and Dirichlet mixed boundary conditions based on some real experiment. We exploit a variety of questions such as the existence and stability of boundary spike/layer solution, the effect of boundary curvature on the boundary-layer profile and so on.

*All are welcome*

This is a joint activity organized by Department of Mathematics, The Chinese University of Hong Kong, Hong Kong; Department of Mathematics, Institute of Mathematical Research, Research Division of Mathematical and Statistical Science, The University of Hong Kong, Hong Kong; and Department of Mathematical Sciences, Ulsan National Institute of Science and Technology, Korea. More details can be found in [https://hkumath.hku.hk/~imr/event/CUHK_HKU_UNIST_Analysis_and_PDE/index.php](https://hkumath.hku.hk/~imr/event/CUHK_HKU_UNIST_Analysis_and_PDE/index.php).