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# Analysis and PDE Seminar

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School of Mathematical Sciences,  
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TITLE: The Cahn-Hilliard Equation with Dynamic Boundary Conditions

*Date* : August 18th, 2021 (Wednesday)

*Time* : 10am-11am (Hong Kong time)

11am-12noon (Korea time)



*Link to ZOOM* : <https://unist-kr.zoom.us/j/3170659442>

Meeting ID : 317 065 9442

Password : APDE21

**Abstract.** In this talk, we discuss a class of dynamic boundary conditions for the Cahn-Hilliard equation that accounts for possible short-range interactions of binary mixtures with the solid wall. We first introduce its derivation that is based on the energetic variational approach. Then we present some recent results on the well-posedness of the initial boundary value problem under different types of assumptions.

*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).

