



香港中文大學
The Chinese University of Hong Kong



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FIRST IN
CHANGE

Analysis and PDE Seminar

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TITLE: Incompressible limit of multi-dimensional compressible viscoelastic systems with vanishing shear viscosity

Date : Apr 24th, 2024 (Wednesday)

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

11am-12noon (Korea time)



Link to ZOOM : <https://cuhk.zoom.us/j/99008163597>

Meeting ID : 990 0816 3597

Password : 219834

Abstract. We will discuss the incompressible limit of compressible viscoelastic systems when the shear viscosity converges to zero. The incompressible limit is characterised by the large value of the volume viscosity. In the limit, the dispersive effect of pressure waves disappears and the global convergence to the limit system around an equilibrium is justified with the help of vector fields.

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.

