

Colloquium

Hyperbolic quenching problem with damping in the MEMS device

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時 間：105 年 5 月 4 日(三) 14：30

地 點：應用數學系多媒體教室（理 408 室）

摘 要：

Typically, the device of a microelectromechanical system (MEMS) consists of an electric membrane hanged above a rigid ground plate, connected in series with fixed voltage source and a fixed capacitor. As the potential difference applied between the membrane and the plate causes the membrane to be deformed. In this talk, We provide some criteria for quenching and global existence of the solution, and introduce some unsolved problem relating to this model.