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FLUTTER PANEL EQUATION IN NON CYLINDRICAL DOMAIN

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Abstract. The motion for small-amplitude of a thin elastic panel with both linear-weak and linear-strong damping are investigated in one-dimensional domain with moving boundary. Existence and uniqueness of global solutions are shown. Asymptotic behavior of energies are also established.

A.M.S. (MOS) Subject Classification Codes. 35B40, 35G30, 35K30.

Key Words and Phrases. Flutter panel equation, non cylindrical domain, existence of solutions, uniqueness, asymptotic behavior.

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