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Fluttering instabilities of cylinder in a Hele Shaw cell[1] HAROLD AURADOU, Lab. FAST , JEAN-PIERRE HULIN, Lab. FAST (CNRS/U-Psud), BENOT SEMIN, LPS ENS, MARIO CACHILE, MARIA VERONICA D'ANGELO, GMP (FI-UBA) — We found that a cylinder confined between two parallel plates displays a fluttering instabilities. The cylinder oscillates with respect to the horizontal. The characteristics of the instability (frequency, amplitude...) are found to be function of the Froude number. Compared to previous studies, this instability is triggered by the confinement and not by inertial effects.

[1]LIA PMF

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