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# Transitions to three- dimensional flows in a cylinder driven by oscillations of the sidewall

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Lopez

*(Submitted on 3  
Nov 2010)*

The  
transition  
from  
two-  
dimensional  
to three-  
dimensional  
flows in  
a finite  
circular  
cylinder  
driven  
by an  
axially  
oscillating  
sidewall  
is  
explored  
in detail.