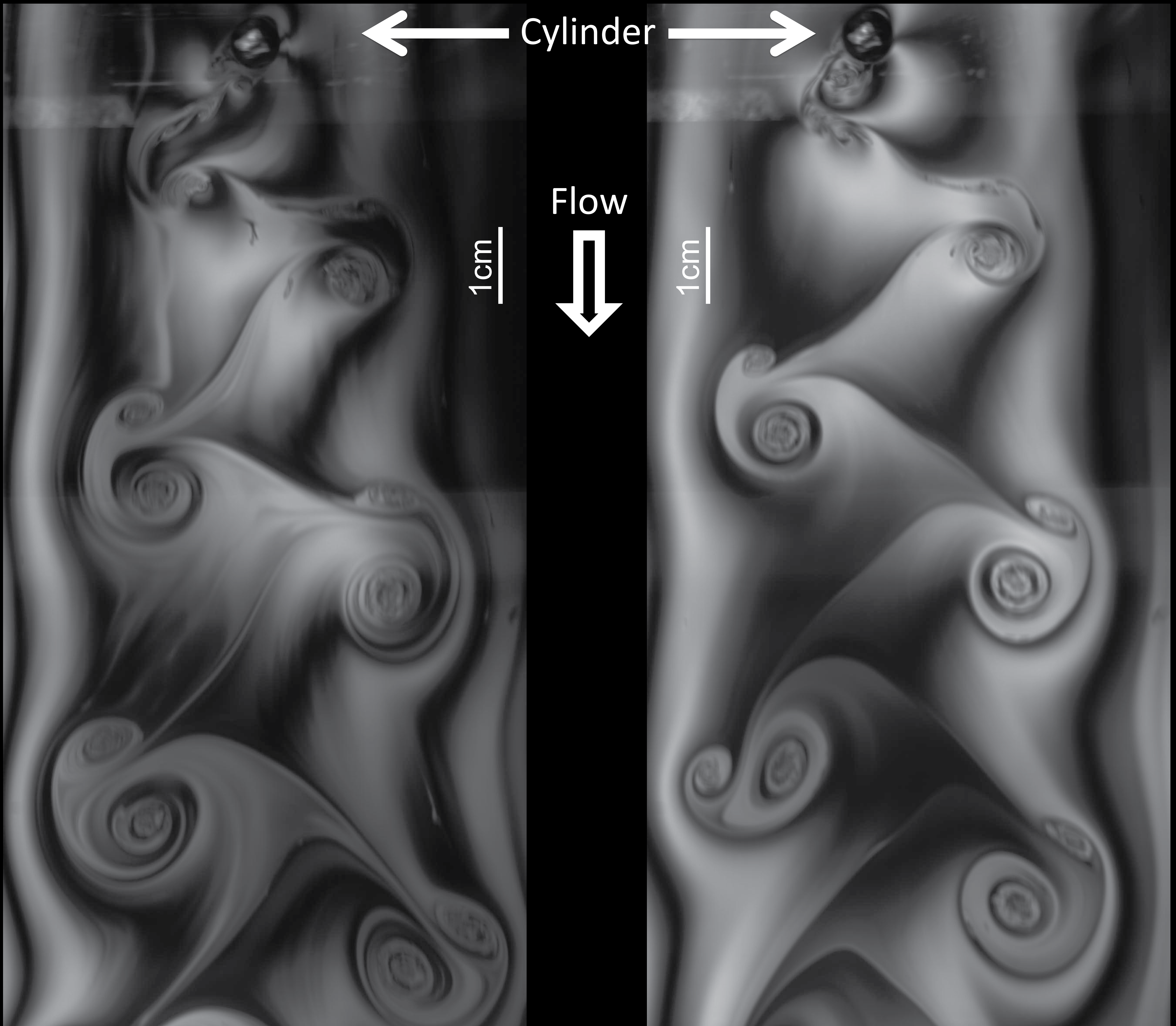


Exotic wakes of an oscillating cylinder in a flowing soap film

Wenchao Yang and Mark Stremler (Virginia Tech)



$Re = 128$
 $f/f_N = 0.87$
 $A/D = 0.63$

Reynolds number
Frequency ratio
Normalized amplitude

$Re = 111$
 $f/f_N = 0.84$
 $A/D = 0.63$

2P wake patterns generated by forced sinusoidal oscillation of a circular cylinder in the quasi-two-dimensional flow of a liquid soap film at low Reynolds number.