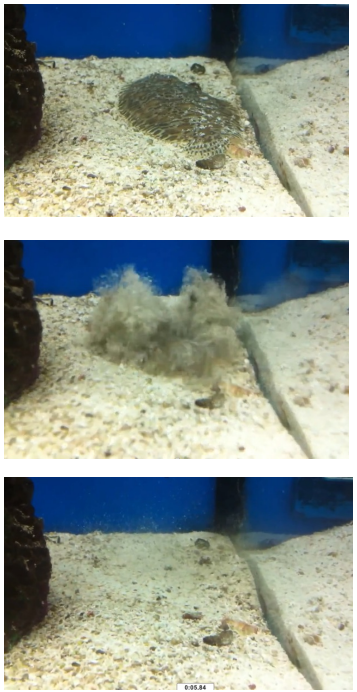
GENERATION OF VORTEX RINGS IN THE WAKE OF A DISK IN UNSTEADY TRANSLATION

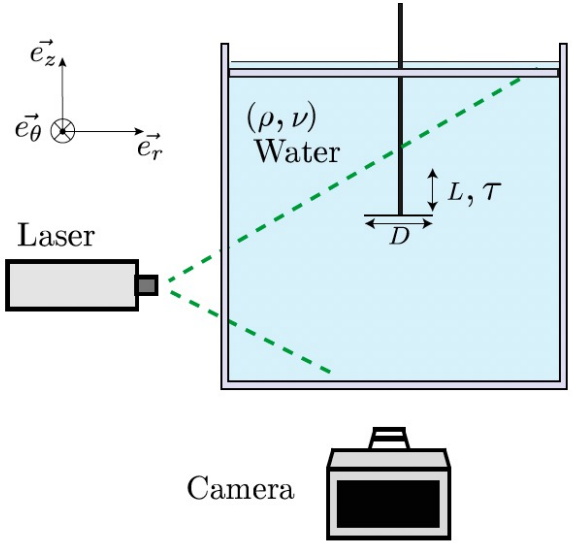
J. Steiner, C. Morize, I. Delbende, A. Sauret & **P. Gondret**

FAST Fluides, Automatique et Systèmes Thermiques
université PARIS-SACLAY
cnrs

Flatfish hiding in sand



Model configuration



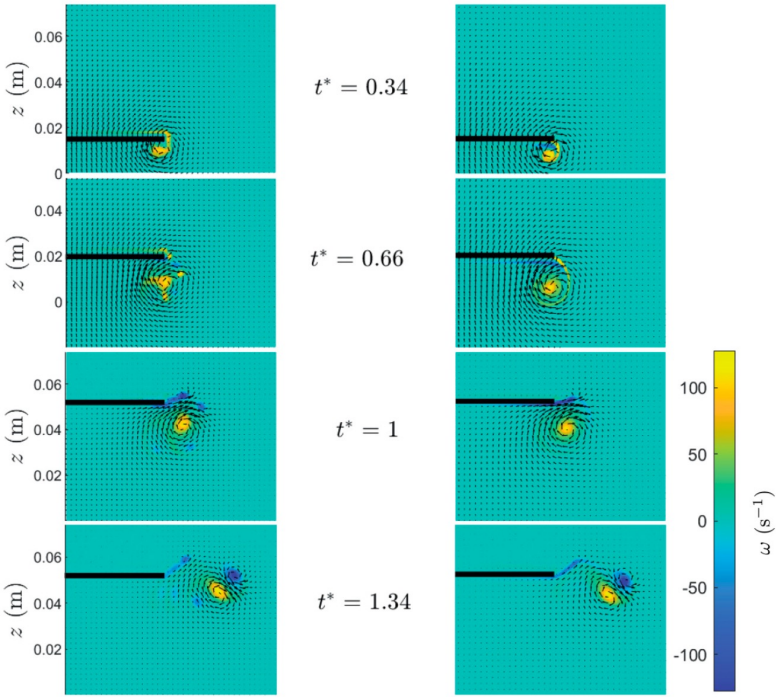
$$V(t^*) = V_m \sin(\pi t^*) \quad \text{for } 0 \leqslant t^* \leqslant 1$$

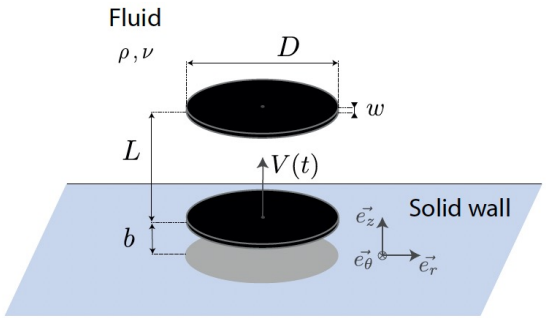
where $V_m = \pi L/(2\tau)$

$t^* = t/\tau$

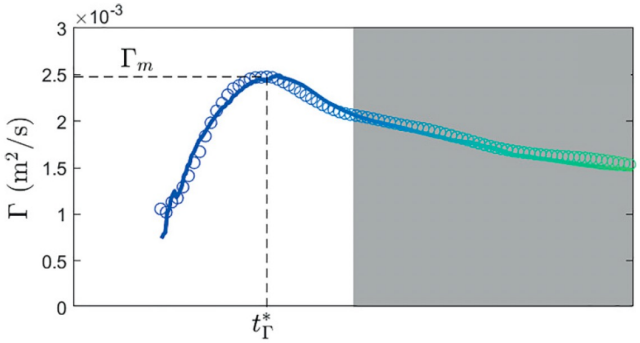
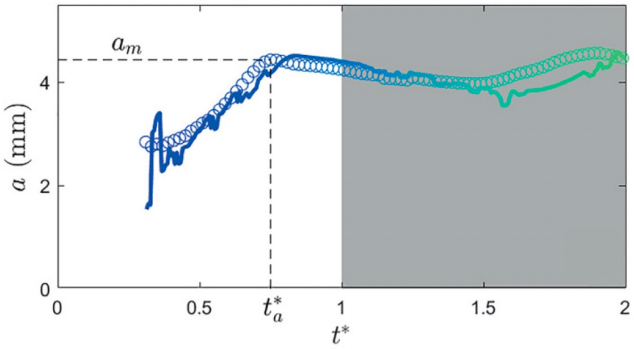
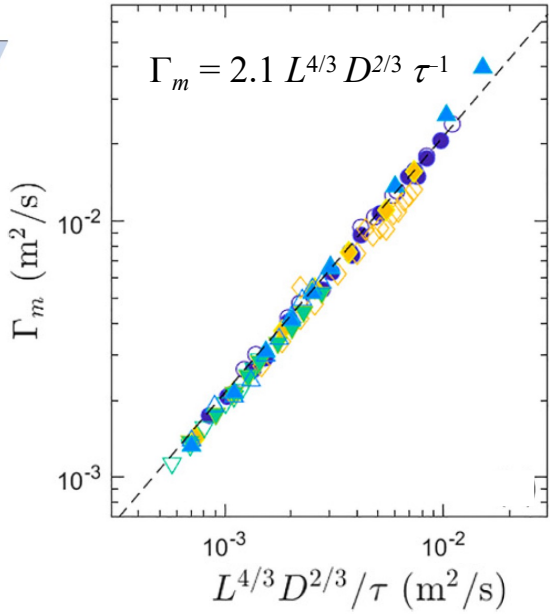
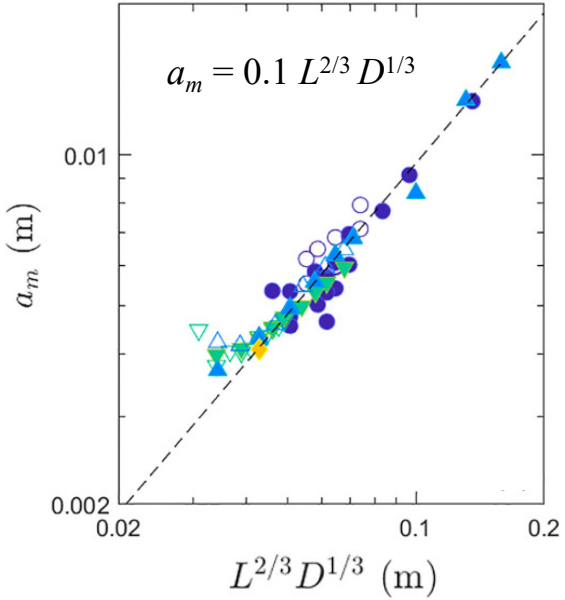
PIV measurements

Basilisk simulations





Vortex circulation



Vortex radius