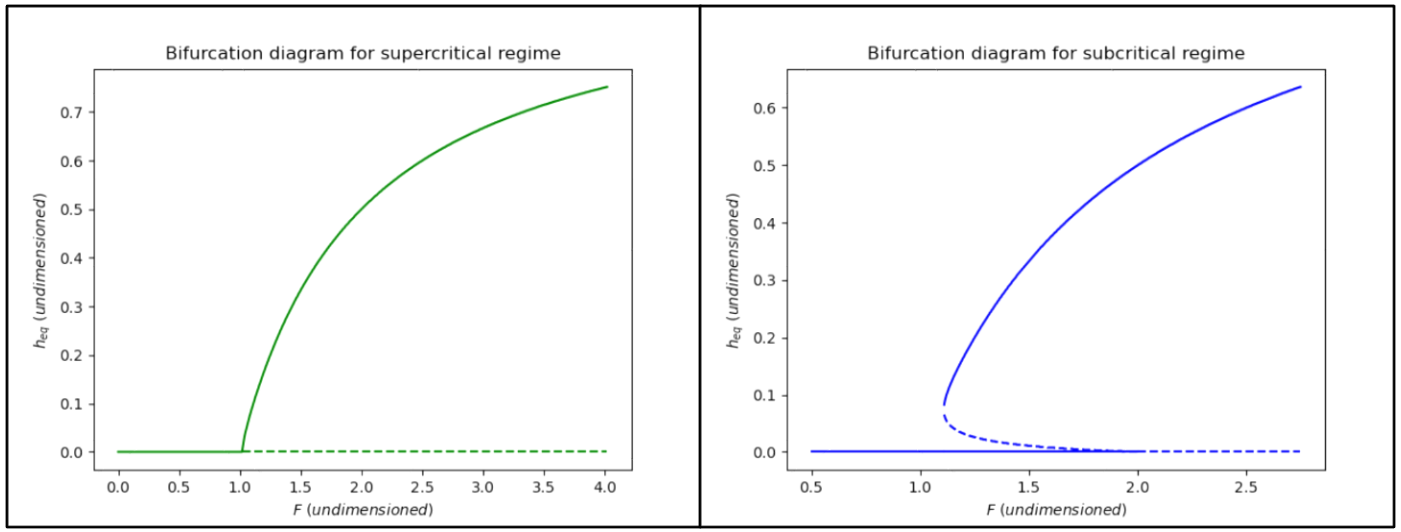
Dynamics of a melt pond

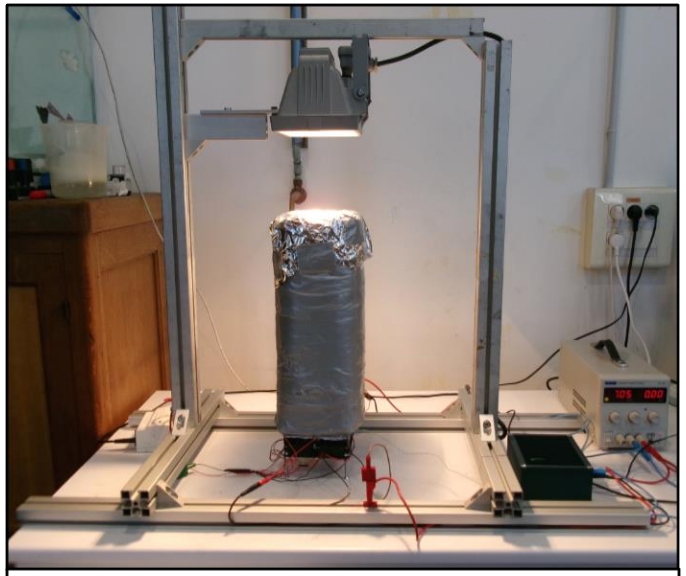
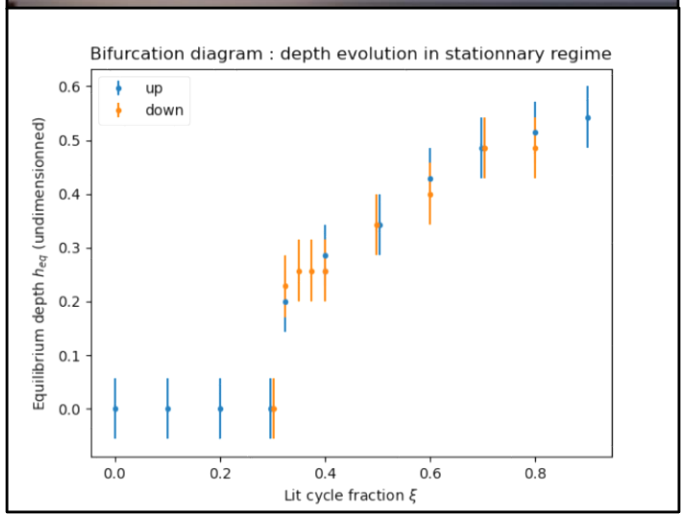
Loup Hasbroucq, Sylvain Courrech du Pont

Model :

$$\frac{\mathrm{d}h}{\mathrm{d}t} = -\frac{1}{1-h} + F\left(1 - \alpha\, e^{-2h/d}\right)$$



$$d \geq \frac{2\alpha}{1-\alpha}$$

$$d < \frac{2\alpha}{1-\alpha}$$

Experiments :