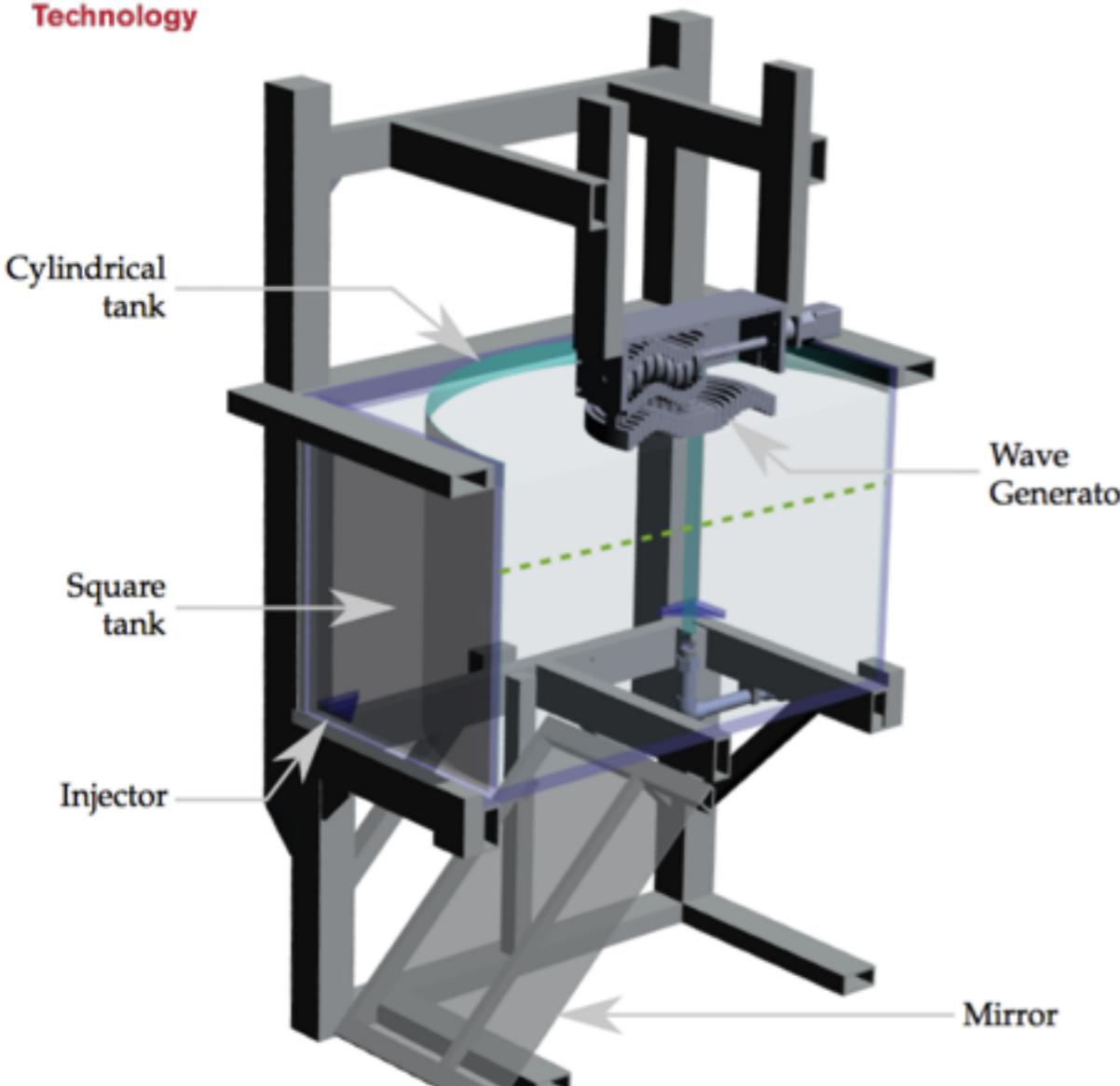


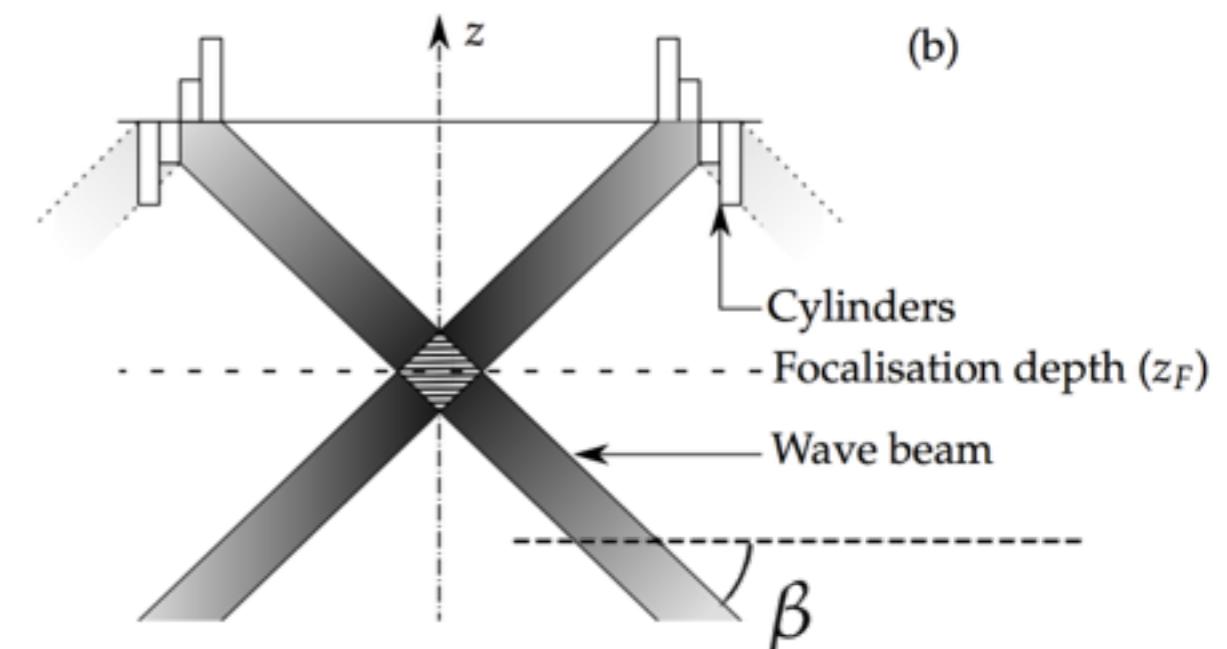
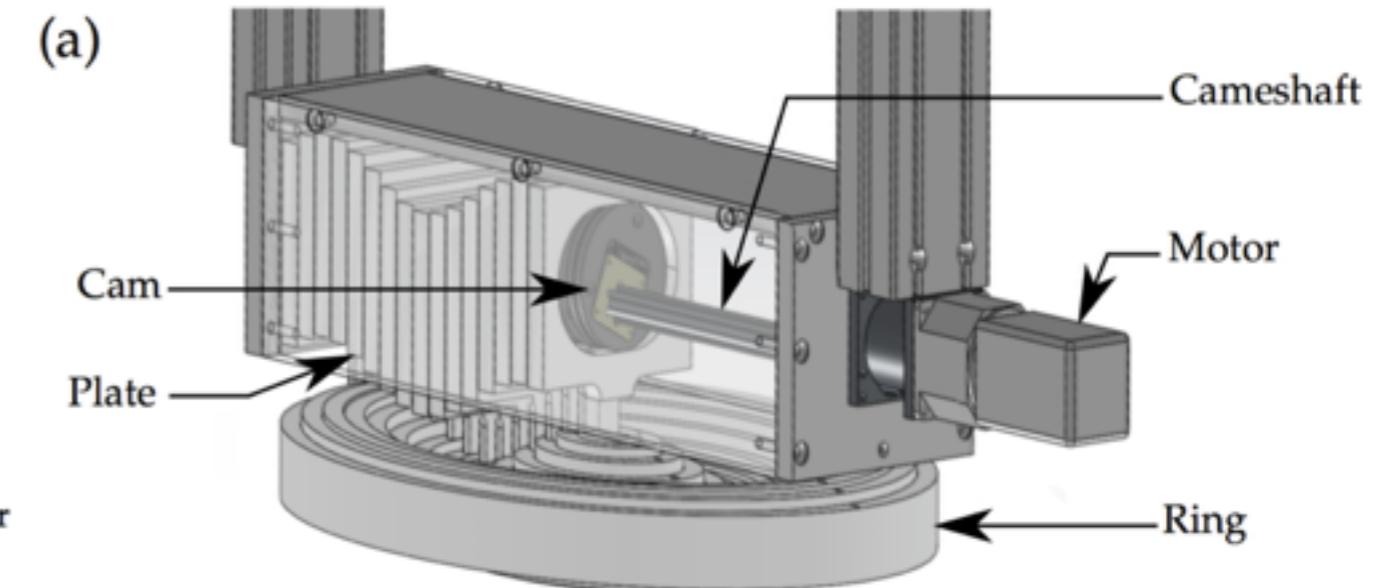
Focalisation of axisymmetric internal wave

Paco Maurer¹, Samuel Boury¹, Philippe Odier¹, Thomas Peacock² & Sylvain Joubaud¹



$$\begin{aligned}\mathcal{O}_{\text{cuve}} &= 1.0 \text{ m} \\ H_{\text{cuve}} &= 0.6 \text{ m} \\ \mathcal{O}_{\text{gen}} &= 0.4 \text{ m}\end{aligned}$$

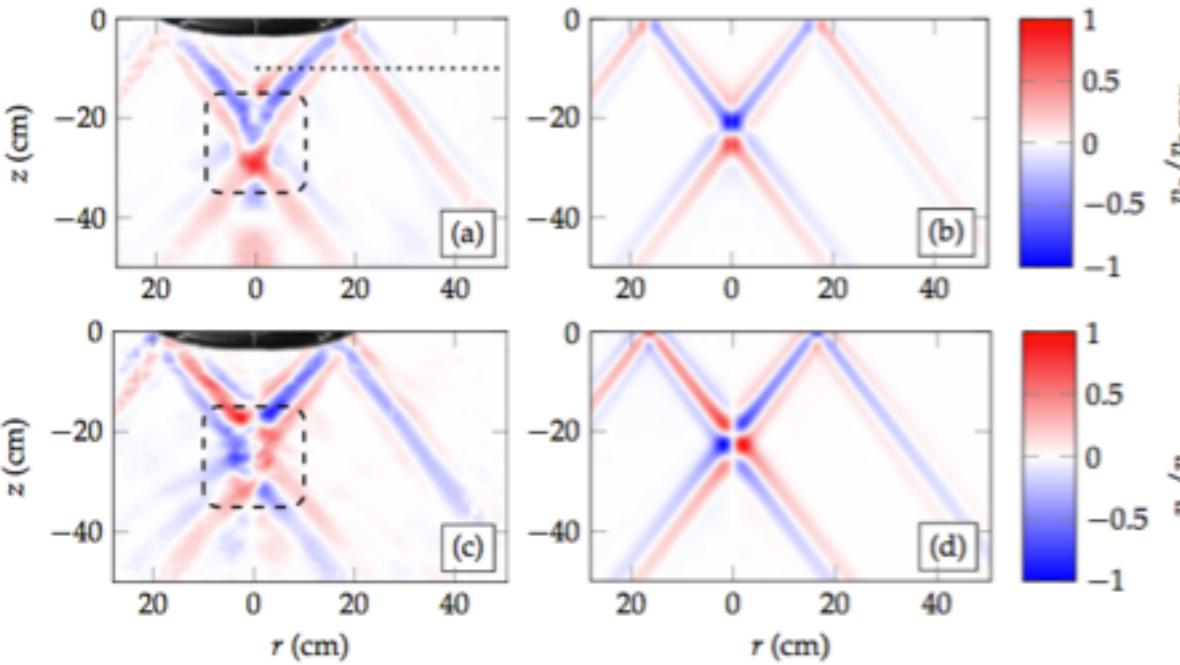
$$\begin{aligned}\text{Re} &\approx 400 \\ \lambda_{\text{visq}} &> H_{\text{cuve}}\end{aligned}$$



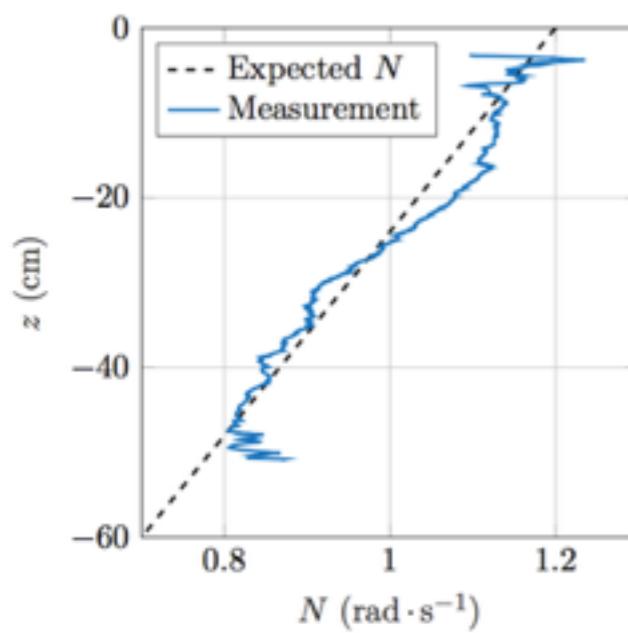
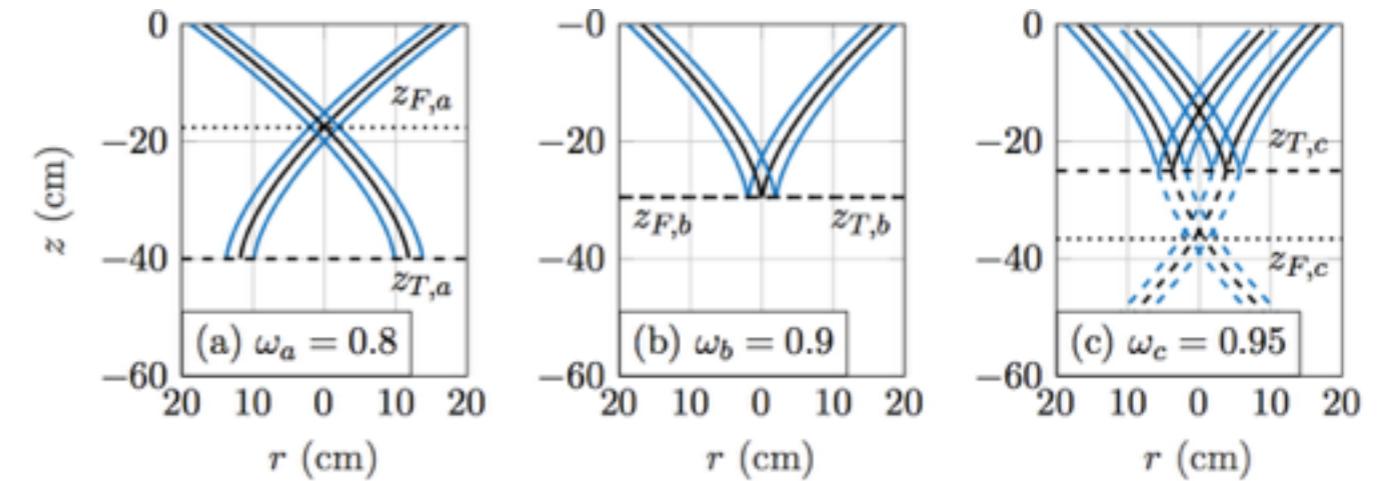
$$\omega^2 = N^2 \sin^2 \beta \quad N = \sqrt{-\frac{g}{\rho} \frac{\partial \rho}{\partial z}}$$

Focalisation of axisymmetric internal wave

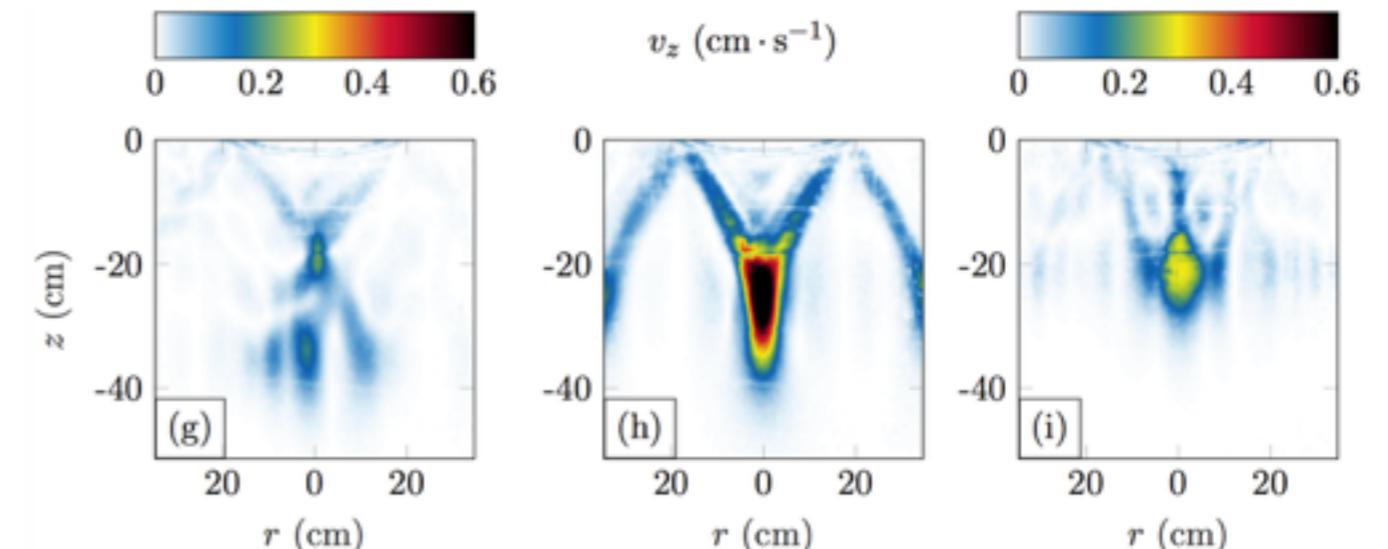
PIV measurements



Linear solution



$$\sin^2 \beta(z) = \omega^2 / N(z)^2$$



Amplification