ULB B-PHOT BRUSSELS PHOTONICS TEAM Vrije Universiteit Brussel

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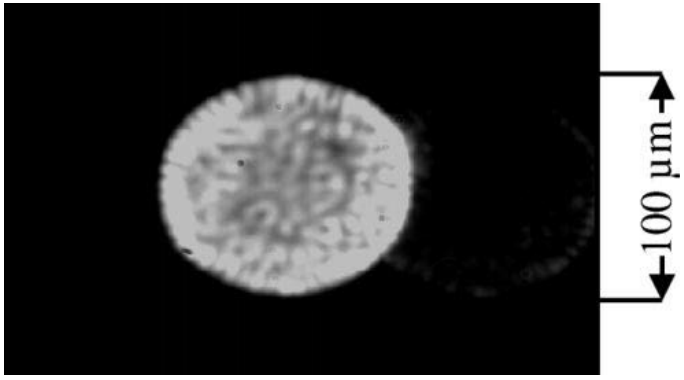

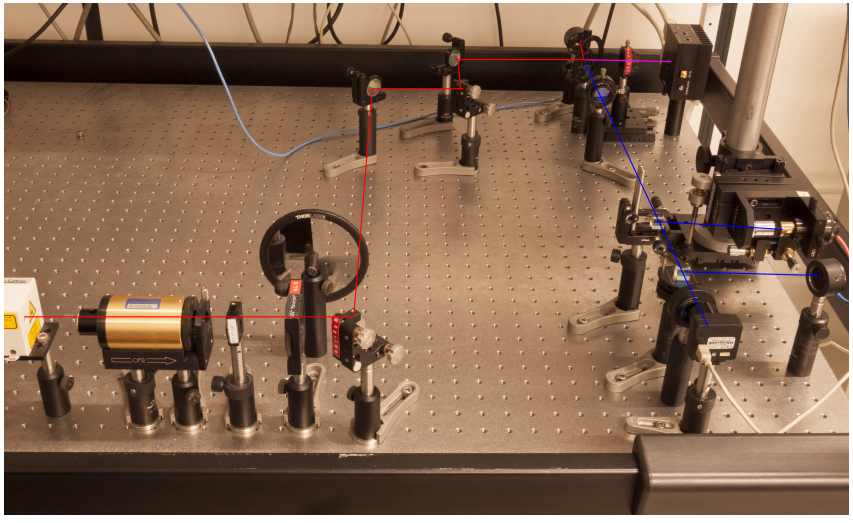

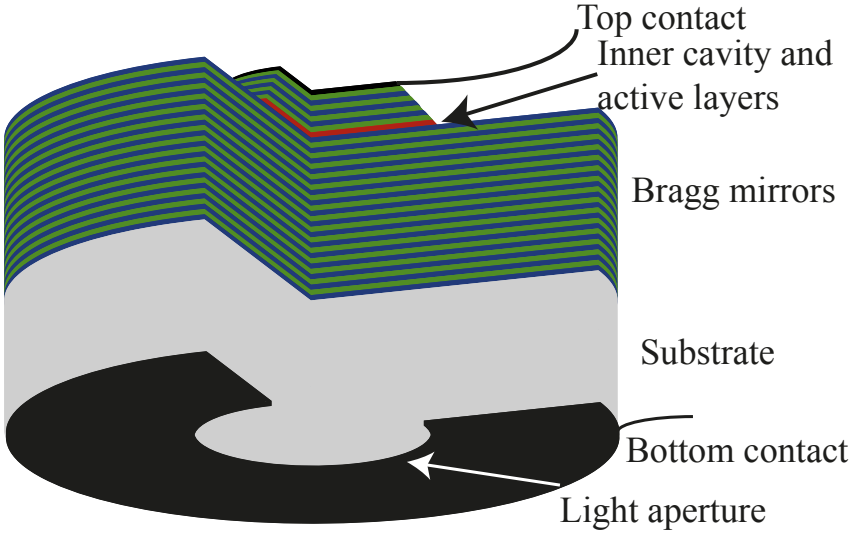

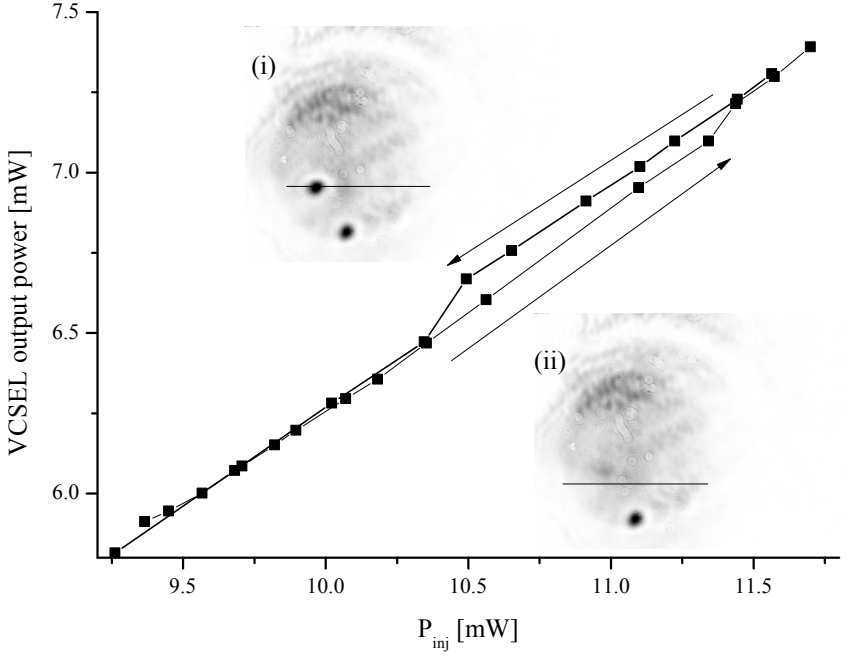

Théorie : rétroaction retardée

$$\frac{dE}{dt} = -(1+\eta+j\theta)E$$
$$+2C(1-j\alpha)(N-1)E+E_i+\zeta e^{j\phi}E(t-\tau)$$
$$+j\nabla_\perp^2 E,$$
$$\frac{dN}{dt} = -\gamma\left[N-P+(N-1)|E|^2\right.$$
$$\left.-D\nabla_\perp^2 N\right].$$

$$\frac{\partial f}{\partial t} = y - f\left(p+f^2\right)+\left(d-\frac{5f}{2}\right)\nabla_\perp^2 f$$
$$-a\nabla_\perp^4 f - 2(\nabla_\perp f)^2 + \bar{\eta}f(t-\tau)$$