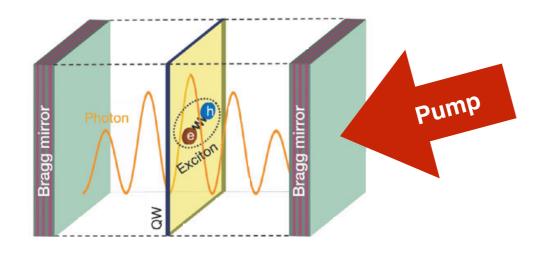


VDED BY 1

Manipulating & Controlling ENS Polariton Superfluid Vortices



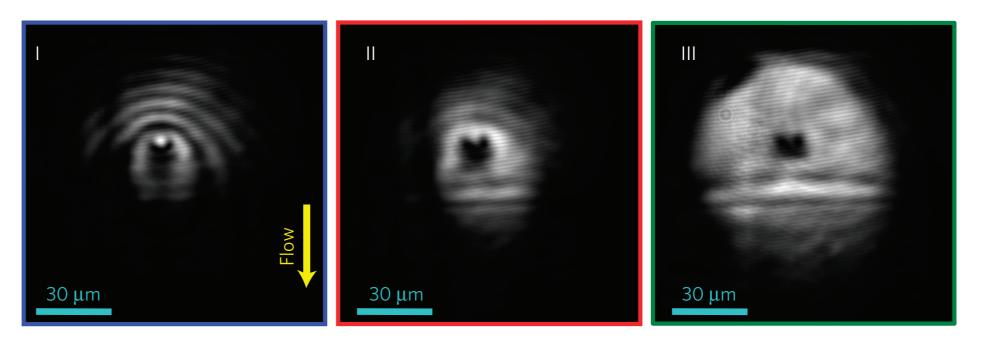




Polariton : matter/light quasi particles, raising from strong coupling between cavity light mode and quantum well excitonic transition

Increasing pump power

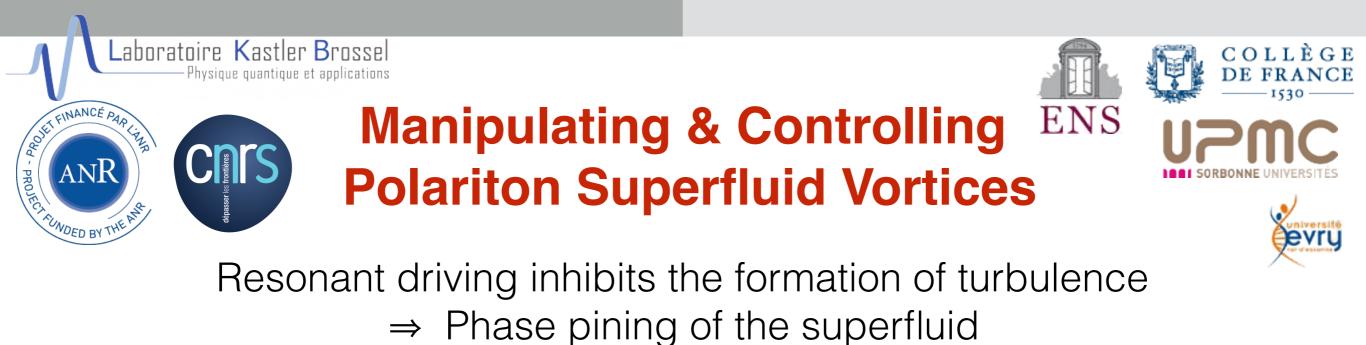
Transmitted light: flowing through a potential barrier, from standard fluid scattering to superfluidity

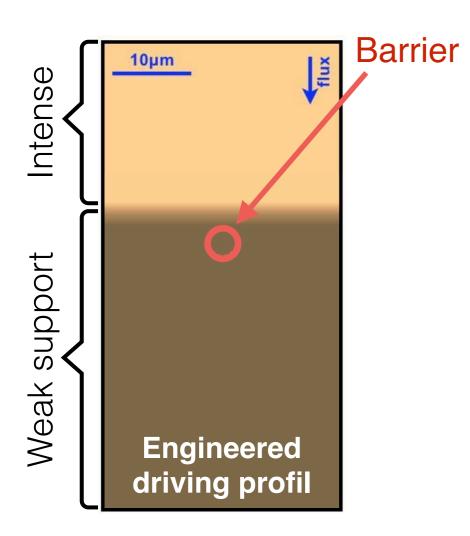


A. Amo, J. Lefrere, SP, C. Adrados, C. Ciuti, I. Carusotto, R. Houdre, E. Giacobino & A. Bramati, Nature Physics. 5 805 (2009).

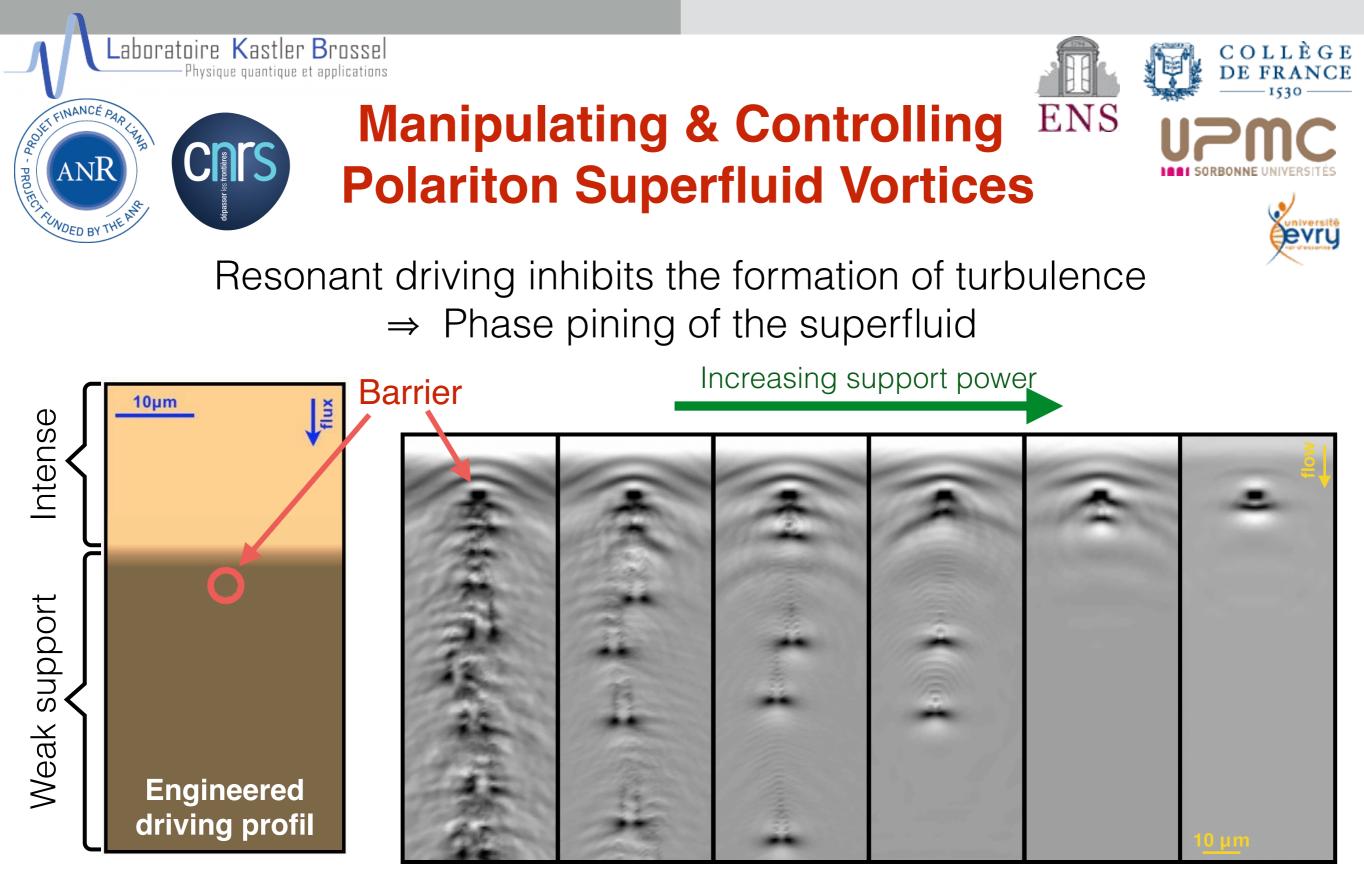
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SP, arXiv:1612.07028



Transmitted light: From high speed and density vortex stream to no vortices

SP, arXiv:1612.07028

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