

FROM INDIVIDUAL DROPLETS TO A UNIFORM FILM

27^E RENCONTRE DU NON LINÉAIRE 19-20 MARS 2024

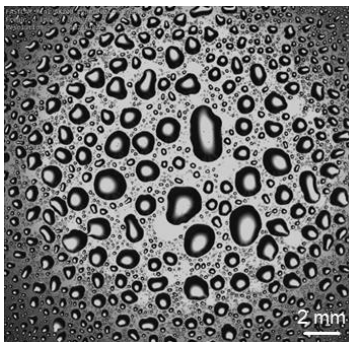
ANTOINE BOUVIER^{1,2} / ETIENNE REYSSAT¹ / JOSÉ BICO¹ / BARBARA BOUTEILLE² / JÉRÉMIE TEISSEIRE²

¹ PMMH - ESPCI PARIS

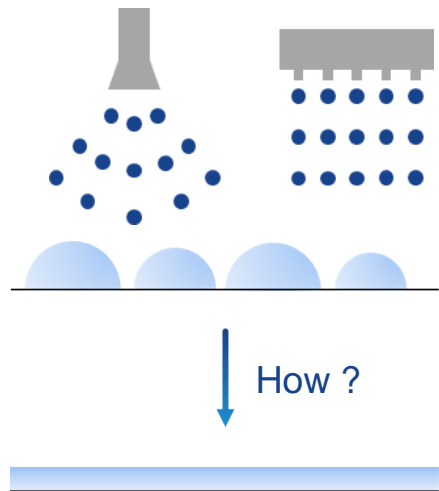
² SGR PARIS – RFL

Liquid coating deposition :

- spraying
- inkjet printing

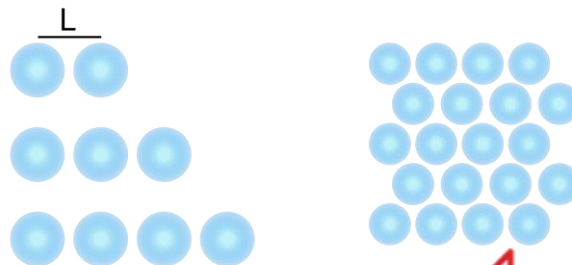


Water sprayed on clean glass

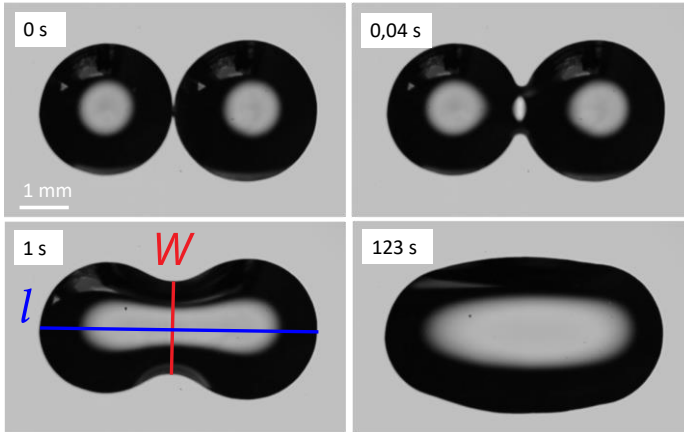


Automatised experimental setup for drop deposition :

- Model experiments
- Various patterns



EXPERIMENTS AND RESULTS



Dynamics of width W :

- $W \sim t^\alpha$ (early time)
- Exponential relaxation

Futur → More complex patterns

