

Abstract Submitted  
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**Dynamics of a small number of droplets moving in microfluidic Hele-Shaw cells** BINGQING SHEN, MARIE LEMAN, PATRICK TABELING, MATHILDE REYSSAT, ESPCI — We investigate both theoretically and experimentally the dynamics of a small number of droplets moving in microfluidic Hele-Shaw cells. We derive simplified equations in the limit of large friction against the wall. These equations provide a quantitative description of the dynamics observed in the experiments. Similar conclusions hold for the influence of the walls.

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