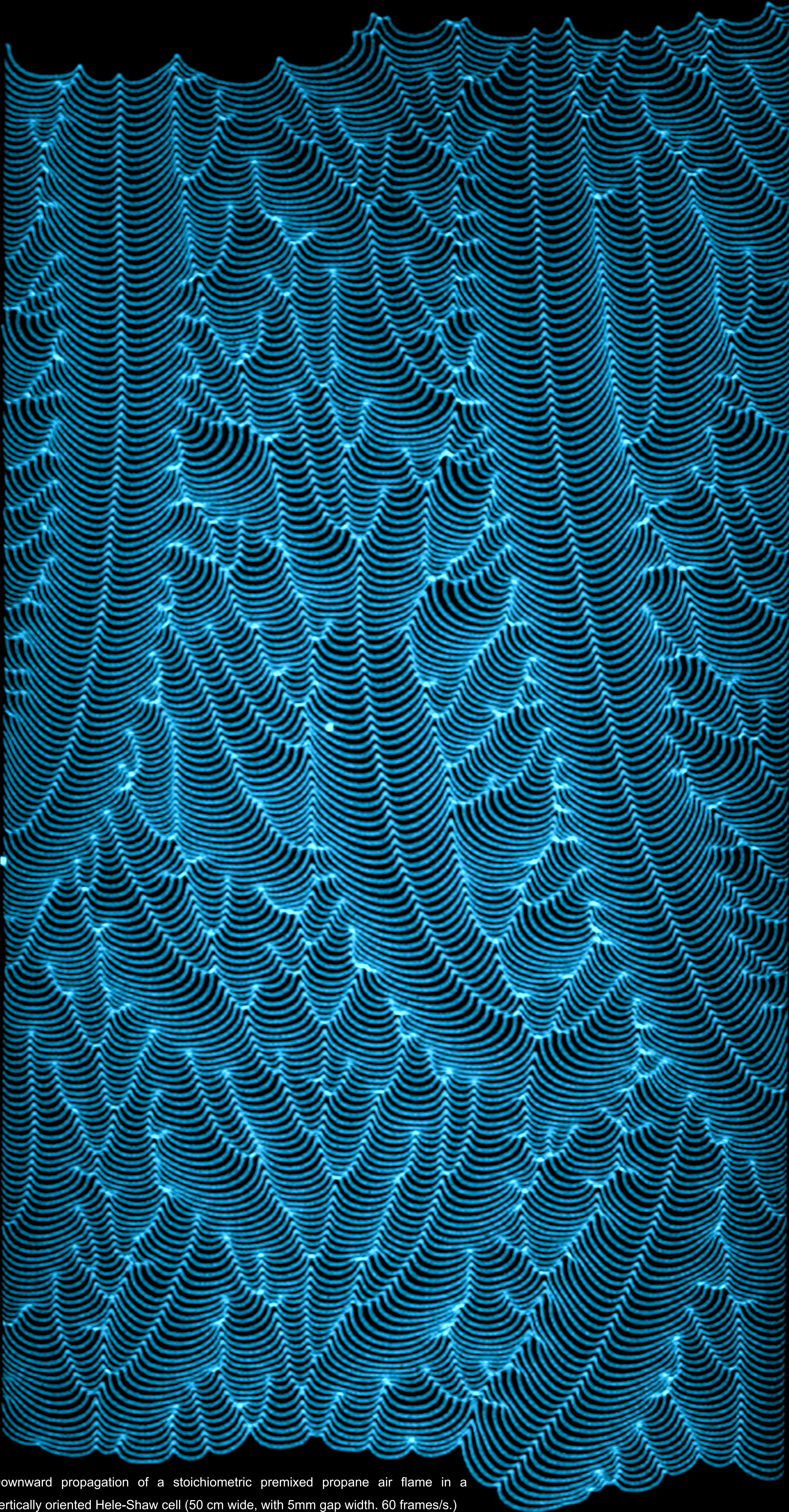


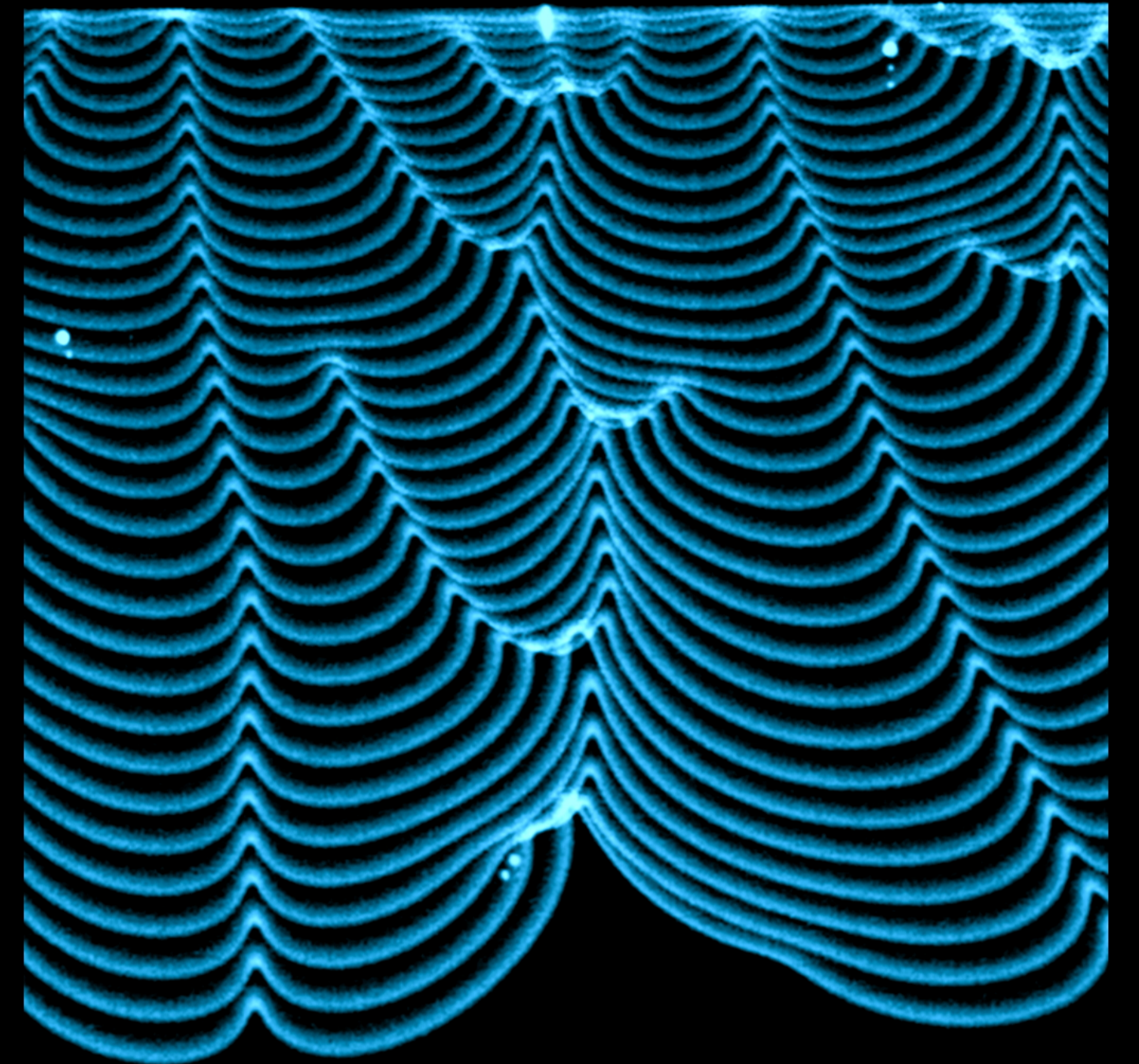
Experimental two dimensional cellular flames

C. Almarcha, J. Quinard, B. Denet, E. Al-Sarraf, J.M. Laugier, E. Villermaux

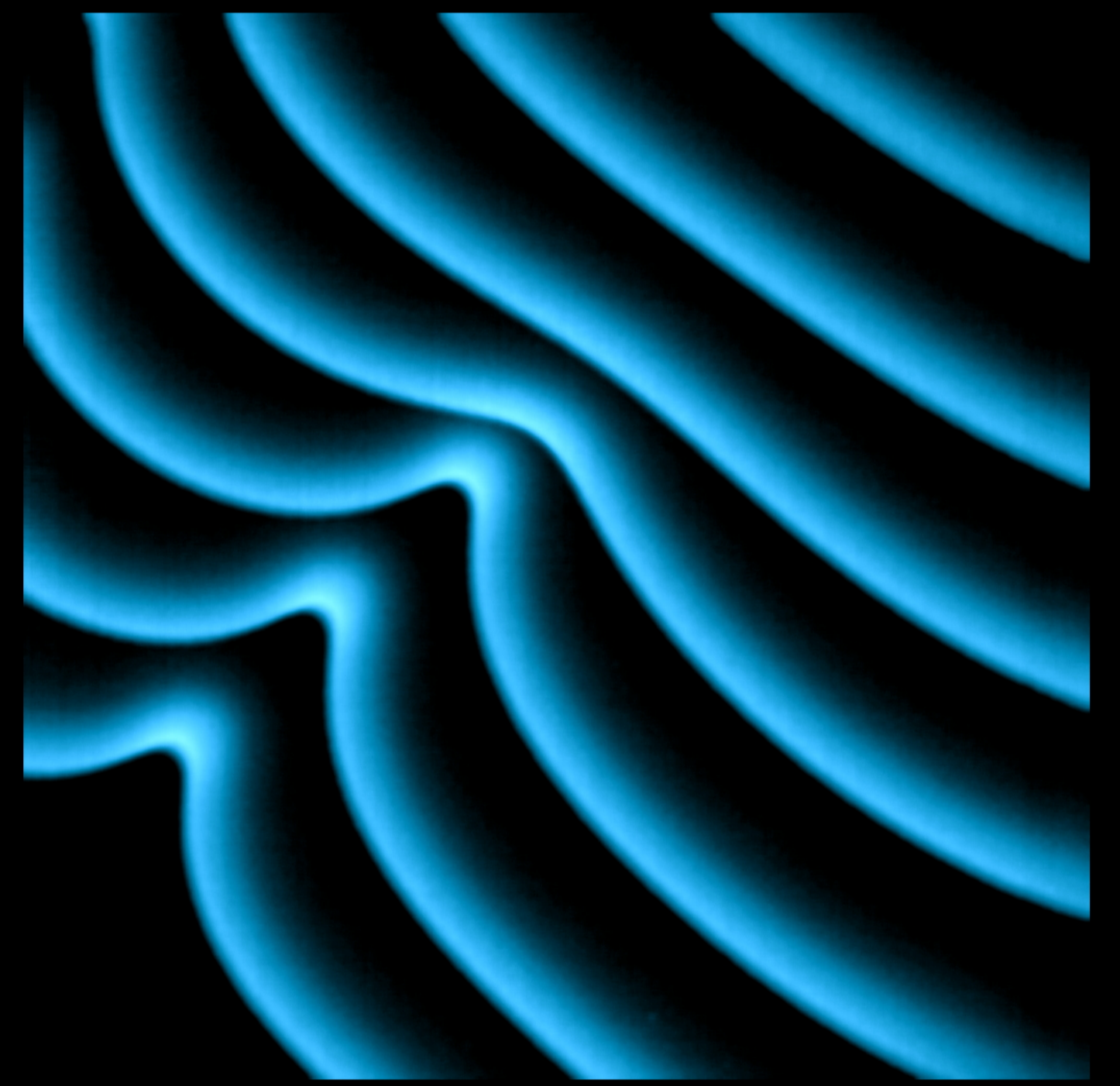
Aix-Marseille Université, CNRS, Centrale Marseille, IRPHE UMR 7342, 13384, France



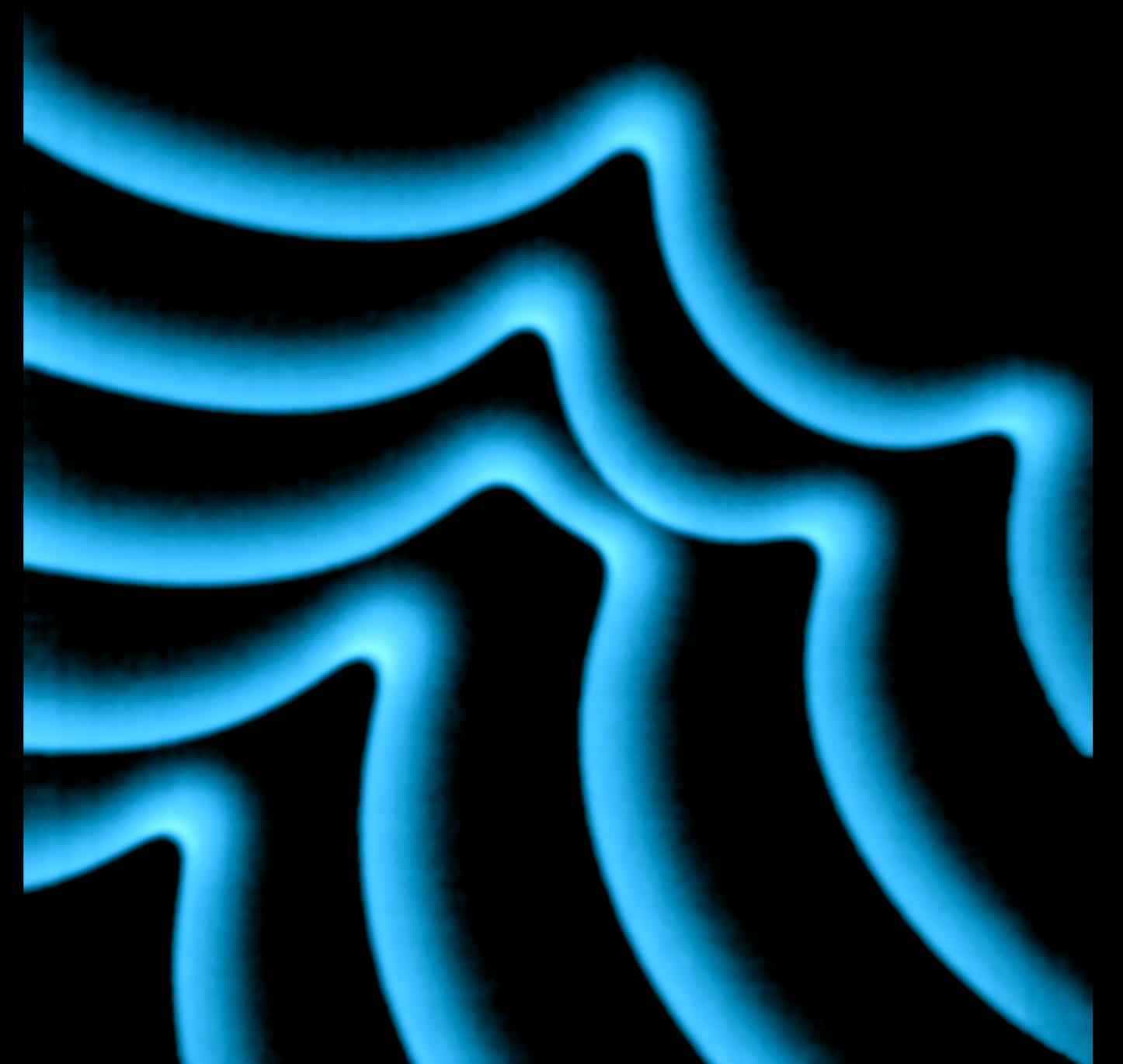
Downward propagation of a stoichiometric premixed propane air flame in a vertically oriented Hele-Shaw cell (50 cm wide, with 5mm gap width. 60 frames/s.)



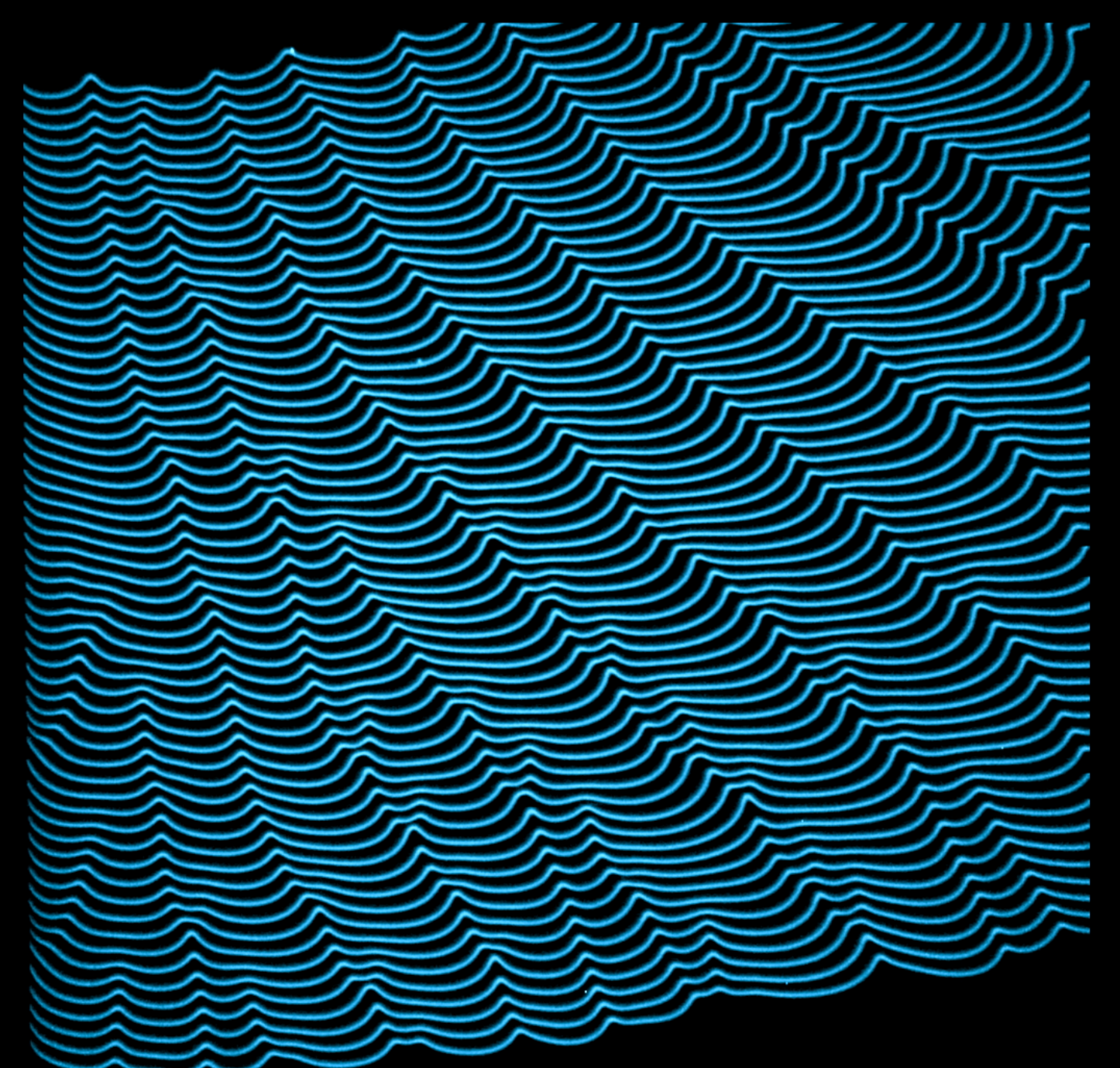
Destabilisation of an initially flat stoichiometric propane air flame. Field of view 12cm, 100 frames/s.



Cusp creation



Cusps merging



Slow propane air flame close to the stability threshold (Equivalence ratio 0.6; field of view 43cm; 25 frames/s.)