

Abstract Submitted  
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**Competition in the condensation of immiscible vapors on a cold substrate**<sup>1</sup> JOSÉ GUADARRAMA-CETINA, WENCESLAO GONZÁLEZ-VIÑAS, University of Navarra — We report experimental results on the breath figures which appear upon condensation of a mixture of vapors on a cold substrate (5° C). Both fluids have similar contact angles on the chosen substrate (72° vs 90°) and are immiscible. After getting the occupation diagram, we focus on the range of experimental conditions where we can see a relevant competition between the two species during the condensation. In the set of experiments, we measure the growth laws and compare them to the case of pure fluids. Also, we study the morphology of the patterns, by paying attention to the relative occupation factors and other related statistical quantities [1].

[1] J. Guadarrama-Cetina & W. González-Viñas, in preparation.

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