

## “Flower Patterns in Drop Impact on Thin Liquid Films”

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Drop impact on liquid film is at the heart of our understanding of many complex multiphase flows. It is present in many industrial applications such as spray coating, ink-jet printing or combustion in motor chambers. It is also crucial in environmental contexts, for instance controlling the dissemination of agricultural products or understanding the erosion enhanced by raindrops. In particular, important questions related to drop impact on liquid films concern the splashing transition and the number and the sizes of the secondary droplets eventually ejected by the impact. Here, we present an experimental study of the instability of the corolla for drop impacts on a liquid surface for moderate impact velocity. We show and analyze the formation of a flowerlike pattern originating from an hydrodynamic instability.

**MARTES 14 JUNIO, 13:00 HORAS**



Sala de Conferencias, Tercer Piso, Departamento de Física  
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