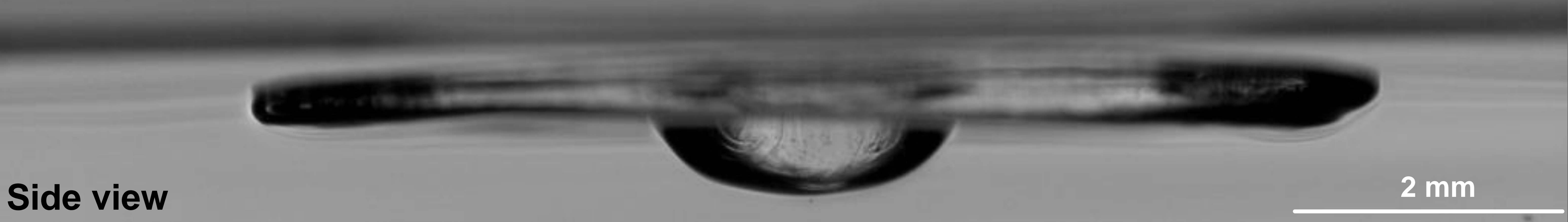


MUSHROOM VORTEX STREET

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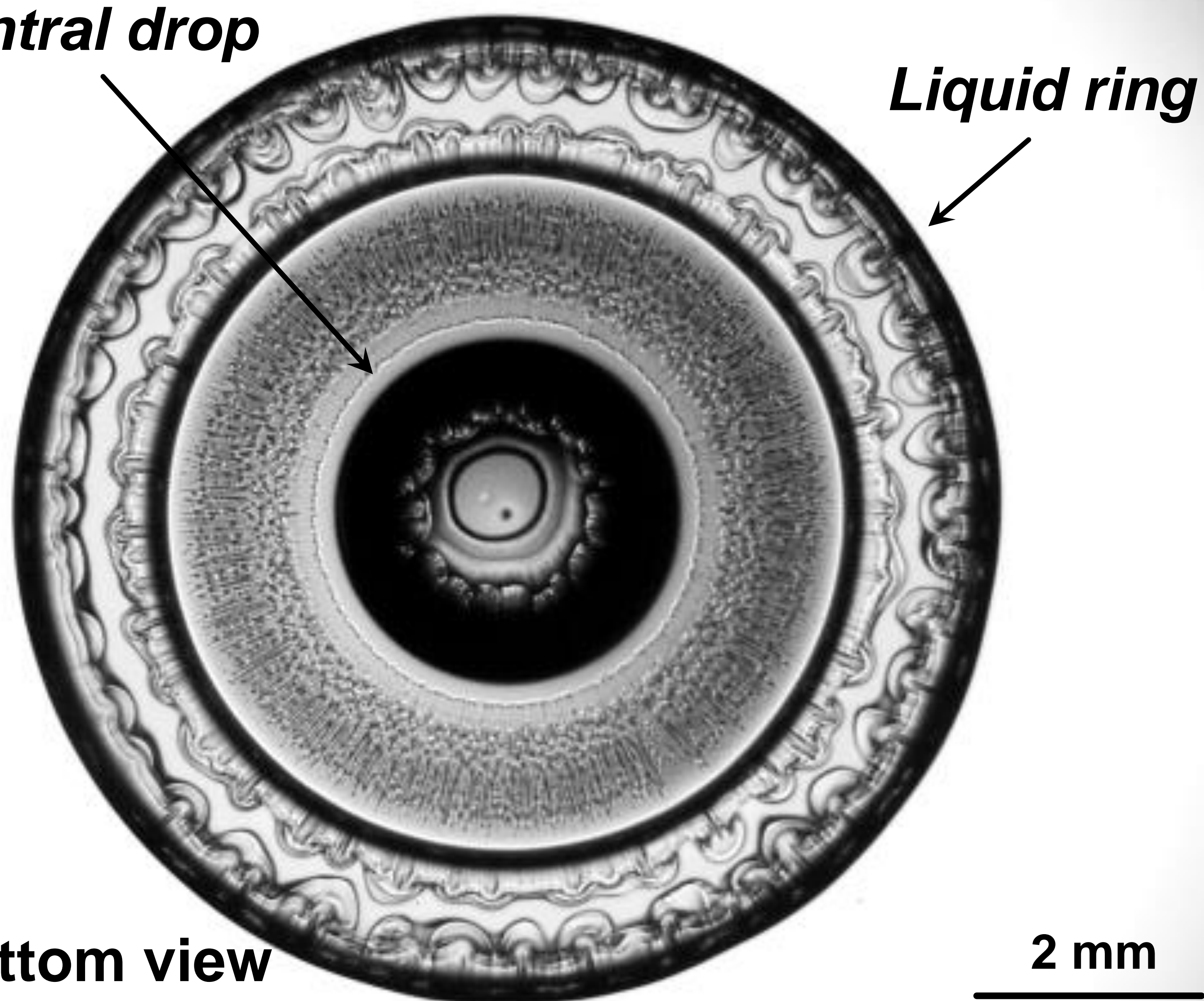


Side view

2 mm

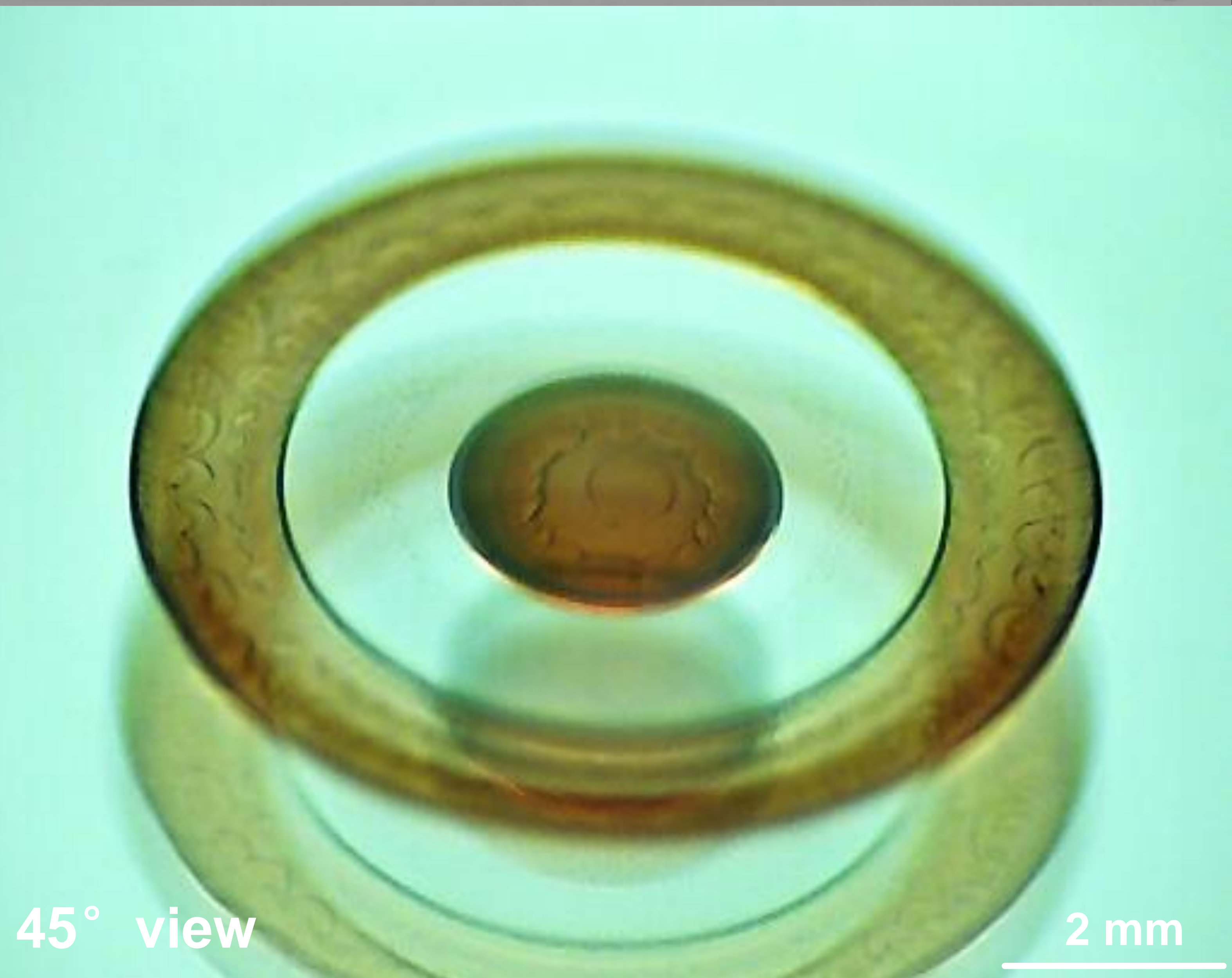
Central drop

Liquid ring



Bottom view

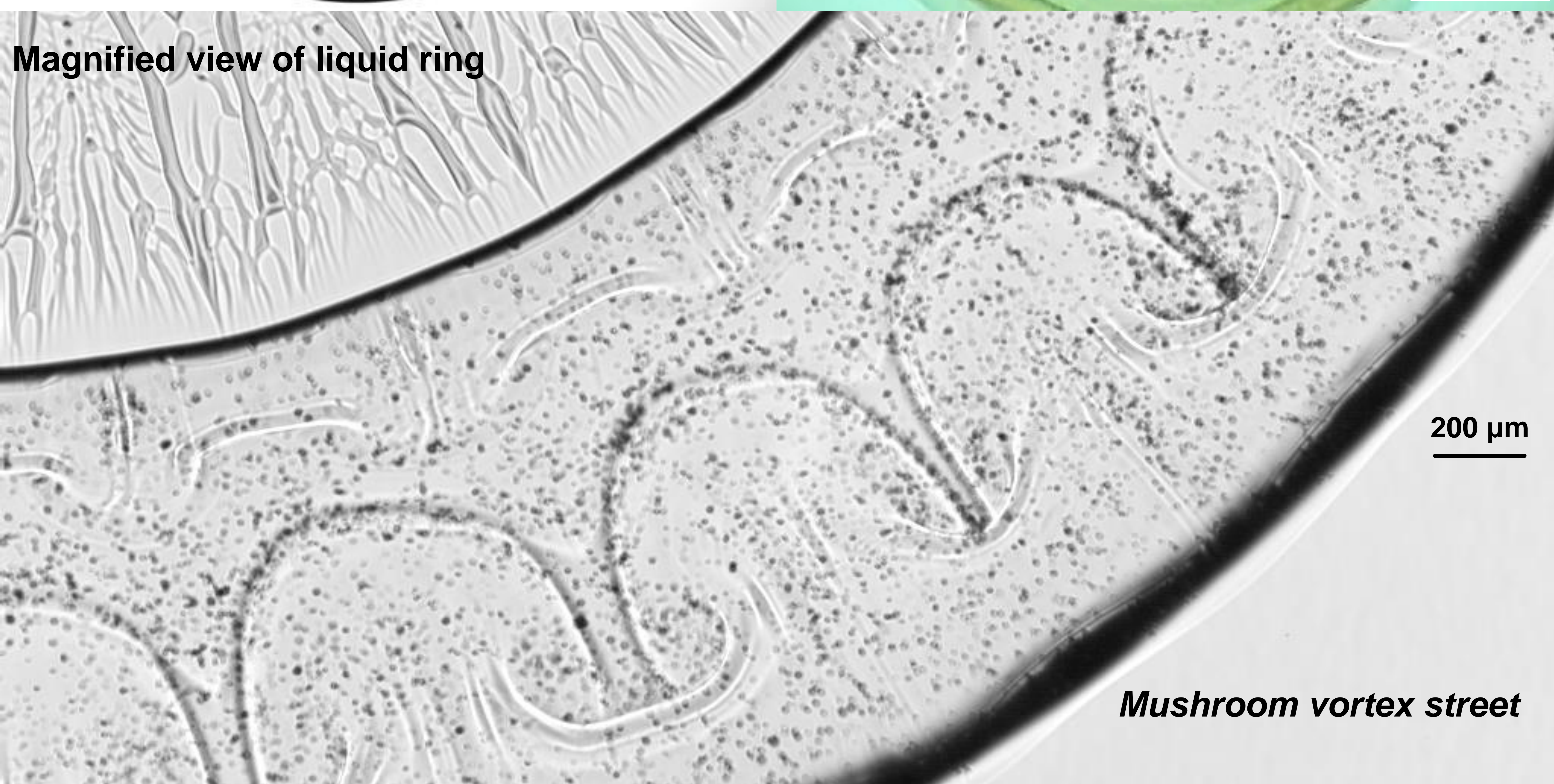
2 mm



45° view

2 mm

Magnified view of liquid ring



200 μm

Mushroom vortex street

When a liquid drop impacts on a thin miscible liquid film, it breaks into a central drop and a surrounding liquid ring. Through high-speed imaging, we observed the formation of a street of mushroom vortex in the liquid ring at initial contact. This street is created by the undulations of the liquid interfaces and reinforced by the surface tension instability following the impact.