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## Poster: Ensheathed Falling Particle

Abdullah Abdal, Lyes Kahouadji, Debashis Panda, Seungwon Shin, Jalel Chergui, Damir Juric, Colm-Cille Caulfield, Omar Matar

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# ENSHEATHED FALLING PARTICLE

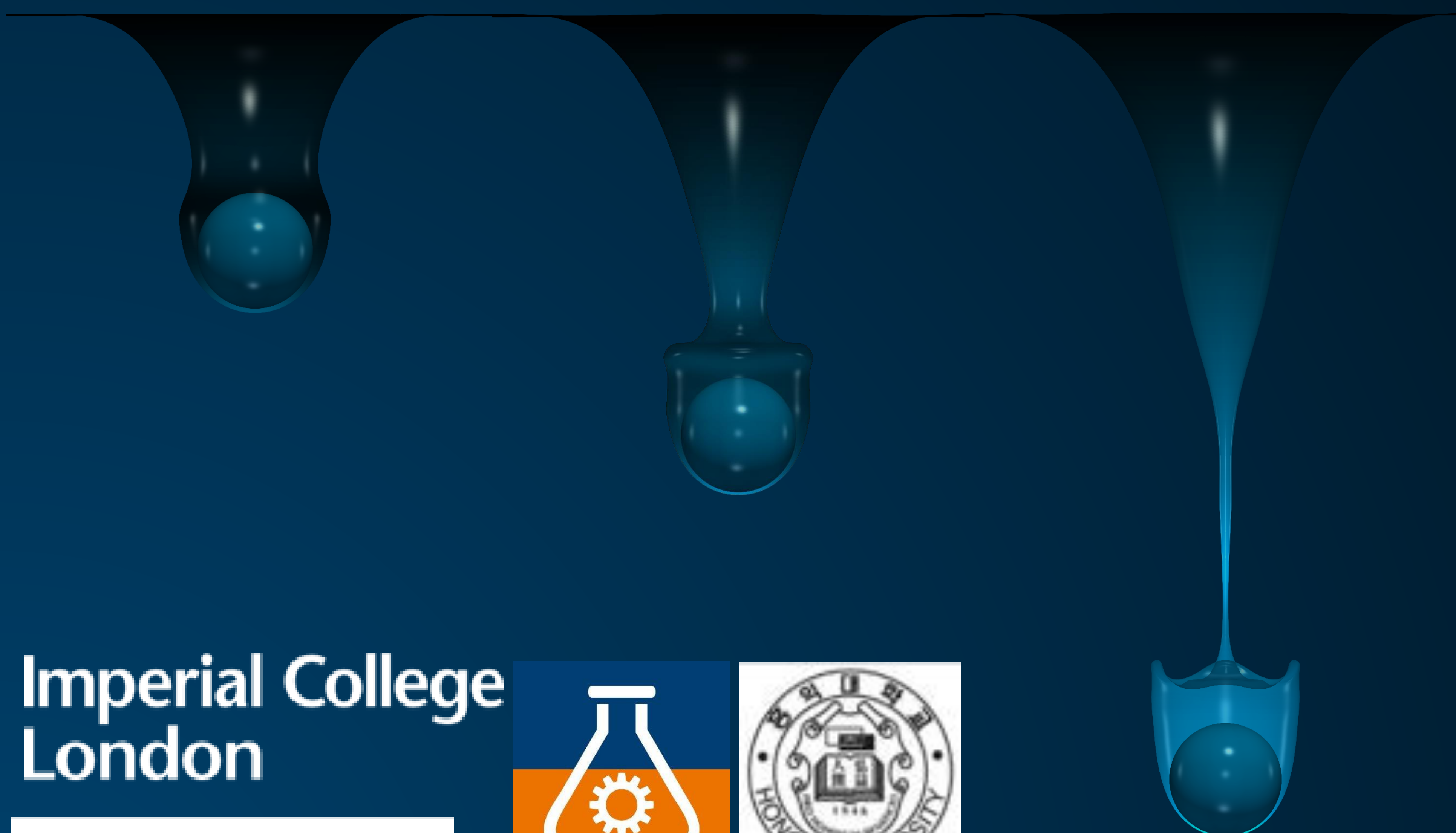
Abdullah Abdal<sup>1</sup>, Lyes Kahouadji<sup>1</sup>, Debashis Panda<sup>1</sup>,  
Seungwon Shin<sup>2</sup>, Jalel Chergui<sup>3</sup>, Damir Juric<sup>3,4</sup>,  
Colm-Cille P. Caulfield<sup>4</sup>, Omar K. Matar<sup>1</sup>

<sup>1</sup> Imperial College London, <sup>2</sup> Hongik University, <sup>3</sup> CNRS-LISN,  
<sup>4</sup> University of Cambridge

*We present three-dimensional Direct Numerical Simulations of a falling particle across an oil-water interface. An interfacial tail gradually forms past the particle, which is connected to the initial interface position.*

*Over time, the tail thins closer to the particle, which would cause the interface to pinch off and retract. The particle would then continue to settle, encapsulated by a layer of oil.*

*The presented color map depicts the vortical structures which arise due to the density and viscosity variations between the oil and the water phase.*



Imperial College  
London



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CAMBRIDGE