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## Poster: Ensheathed Falling Particle

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► **To cite this version:**

Abdullah Abdal, Lyes Kahouadji, Debashis Panda, Seungwon Shin, Jalel Chergui, et al.. Poster: Ensheathed Falling Particle. 76th Annual Meeting of the APS Division of Fluid Dynamics, Nov 2023, Washington, United States. American Physical Society, 10.1103/APS.DFD.2023.GFM.P0042 . hal-04401573

**HAL Id: hal-04401573**

**<https://hal.science/hal-04401573>**

Submitted on 17 Jan 2024

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# ENSHEATHED FALLING PARTICLE

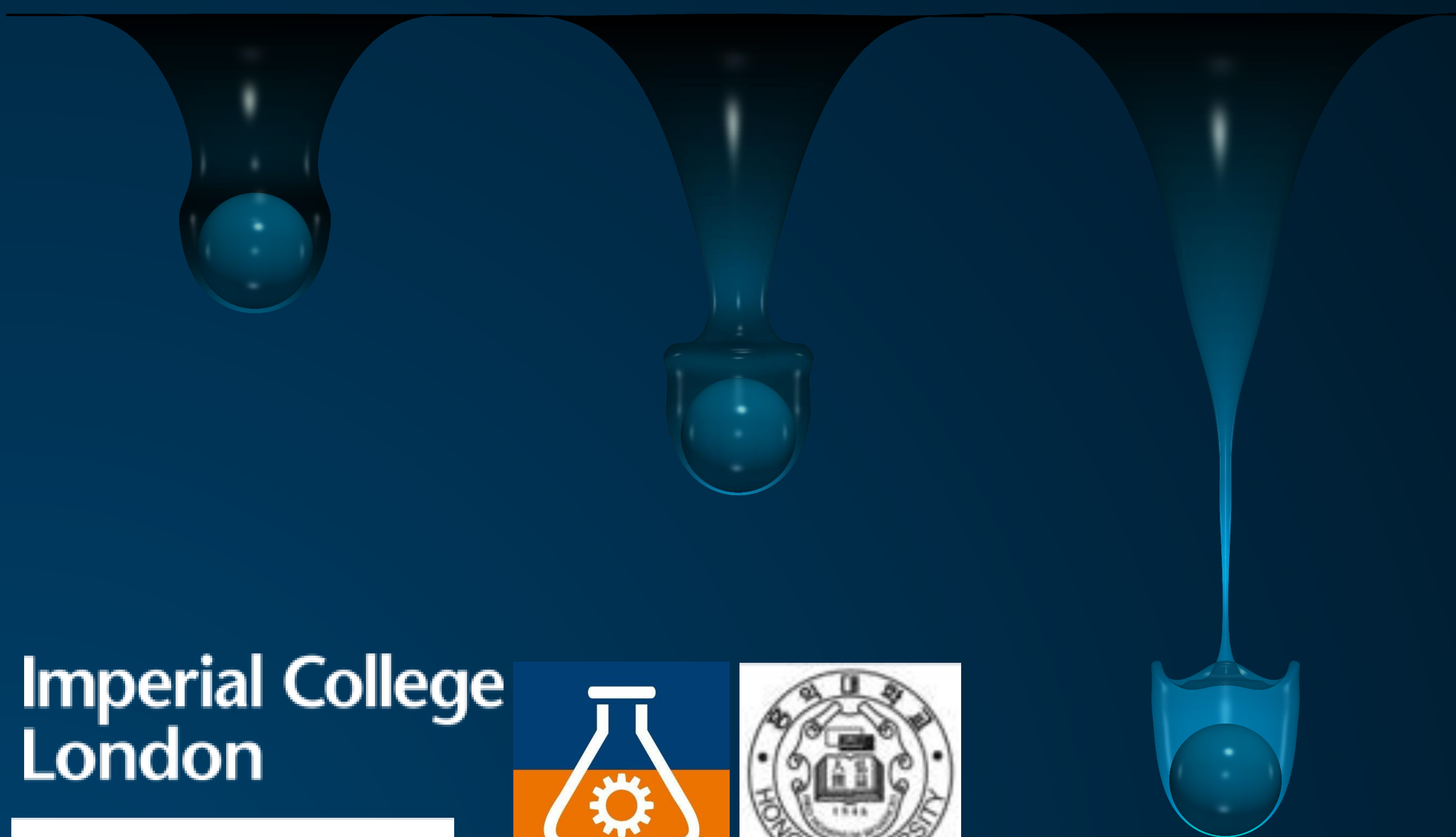
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*We present three-dimensional Direct Numerical Simulations of a falling particle across an oil-water interface. An interfacial tail gradually forms past the particle, which is connected to the initial interface position.*

*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.*



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LABORATOIRE INTERDISCIPLINAIRE  
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