

Fluid Bodies: from the Celestial to the Subatomic

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Abstract

The artworks of Evelina Domnitch and Dmitry Gelfand explore exotic fluid phenomena, from sonoluminescence to the hexagonal jet stream on Saturn's north pole. Pushing the very thresholds of observability, their endeavours raise questions as to what can and cannot be ultimately perceived and comprehended about physical reality. The duo will discuss their 20-year trajectory, culminating in a recent collaboration with the 2017 Nobel Prize winner, LIGO (Laser Interferometer Gravitational Wave Observatory).

1. Figures



Figure 1: Emissions of sonoluminescence in *Camera Lucida: Sonochemical Observatory*.

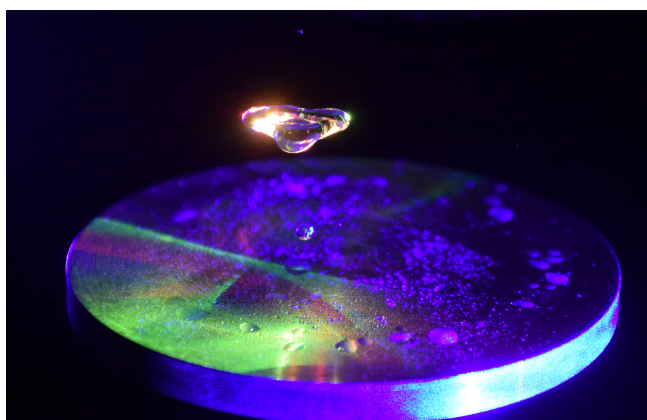


Figure 2: In the performance of *Force Field*, acoustically levitated water droplets evoke astrophysical dynamics.

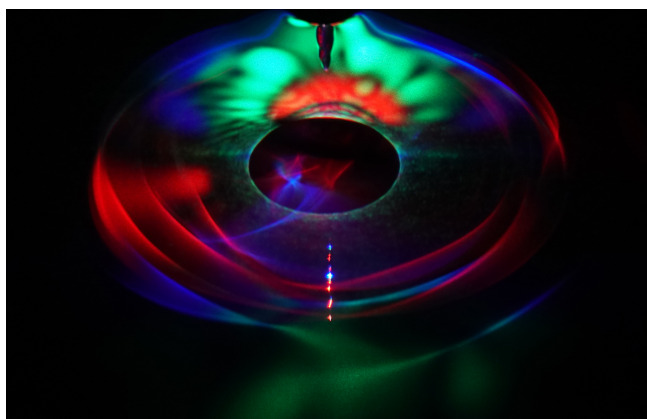


Figure 3: A hydrodynamic black hole analogue in the LIGO collaboration, *Orbihedron*.

References

- [1] Domnitch, E., Gelfand, D. “Camera Lucida: A Three-Dimensional Sonochemical Observatory,” *Leonardo*, Vol. 37, No. 5, pp. 391–396, (2004)
- [2] Domnitch, E., Gelfand, D., “Mesoscopic Ripples in the Neural Sea”, *Experiencing the Unconventional: Science in Art* (World Scientific Publishing, 2015).
- [3] Kirschner, R. (Ed.), *Raw Flows. Fluid Mattering in Arts and Research* (De Gruyter, 2016)