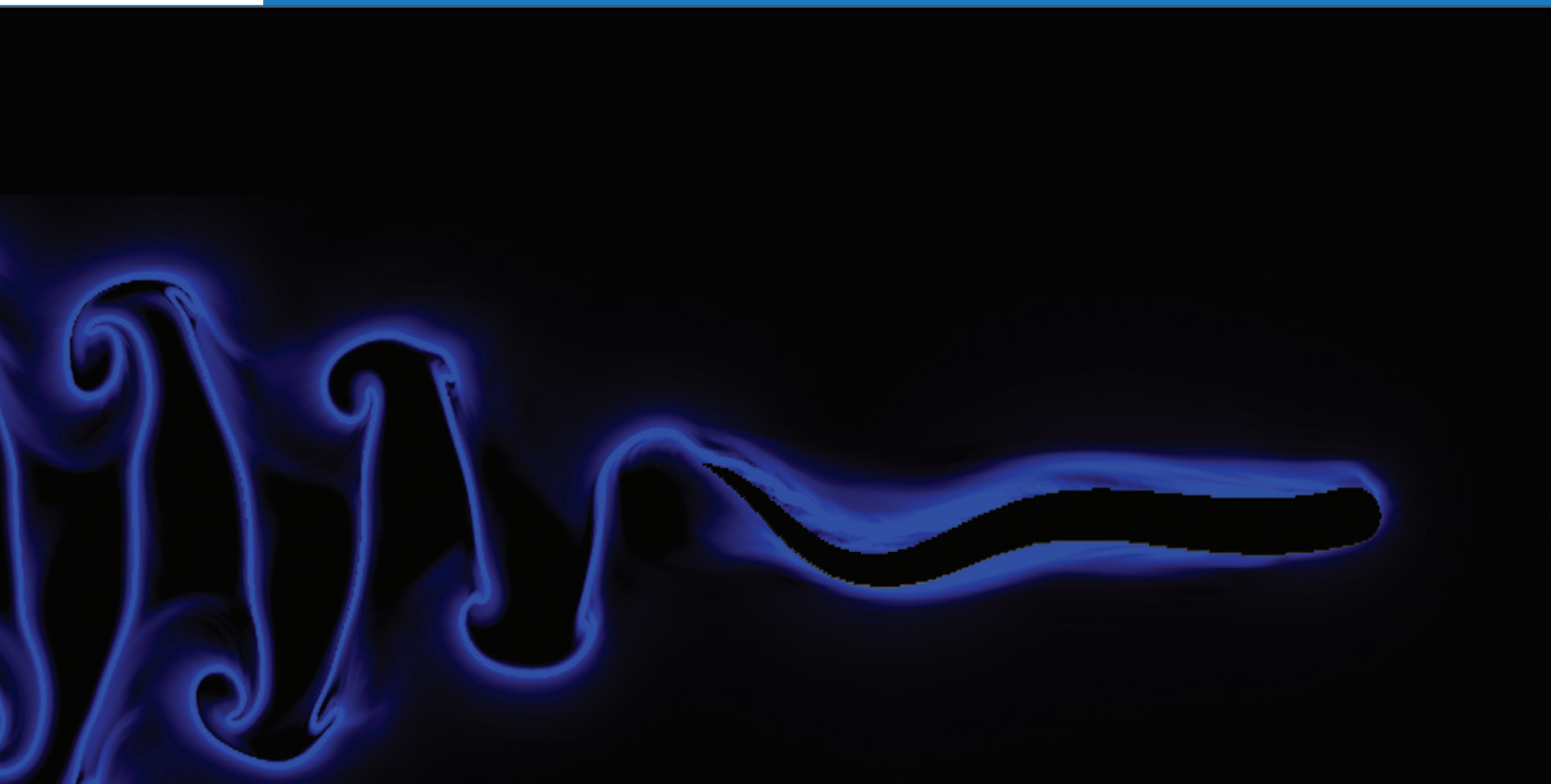


ON THE COVER

The dome of the 200-inch Hale Telescope on Palomar Mountain on a summer evening. Just to the left of the dome, you can see the center of the Milky Way.

AN EEL'S WAKE



A simulated eel swims by, leaving behind its wake. The blue wisps represent Lagrangian coherent structures, which are boundaries that separate different types of flow. In this case, the structures divide the swirling vortices from the rest of the fluid. These structures are important not only in understanding how sea creatures propel themselves, but also in understanding other fluid systems, such as how air flows around planes and how pollution spreads in the ocean. Clara O'Farrell, a graduate student working with Associate Professor of Aeronautics and Bioengineering John Dabiri (MS '03, PhD '05), made this image based on a simulation done by Stefan Kern and Petros Koumoutsakos from the Swiss Federal Institute of Technology in Zürich (ETH Zürich). This image is part of Caltech's 2010 Art of Science exhibit. To see more submissions, go to www.artofscience.caltech.edu.



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