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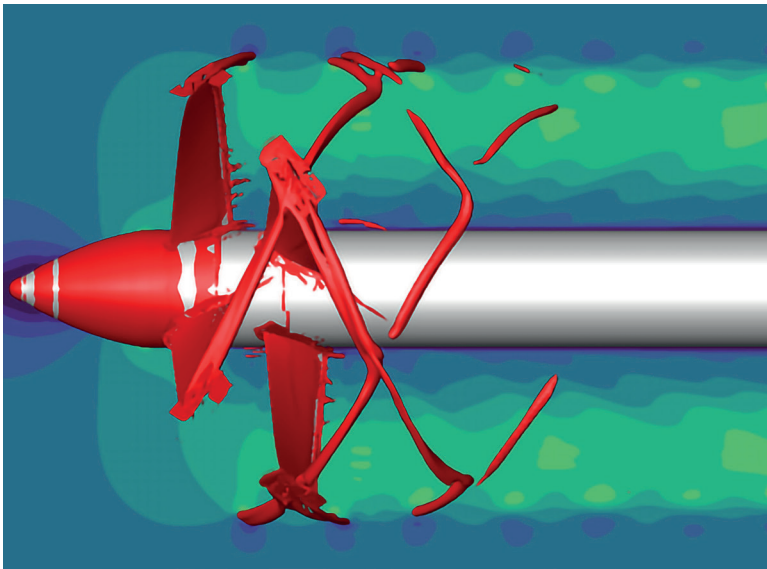
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PhDAER-SEMINAR

Single & Contra Rotating Propellers: A summary of Aerodynamics Models

Speaker: Antonino Filippone

School of Engineering, The University of Manchester



In recent years there has been a resurgence of interest in propeller systems because of their lower environmental impact (higher efficiency), as well as the advent of electrically powered vehicles. This new interest has generated a plethora of new configurations and spurred a development in sophisticated methods of analysis, design, and optimisation. The seminar summarises on-going developments and focusses on aerodynamic simulation methods for both single- and contra-rotating propellers (vortex methods, rotor-on-rotor interference, wake models), alongside new configurations such as unequal blade spacing, folding propellers, locked-rotors, and propellers with vanes.

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