

Abstract Submitted
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High Reynolds Number Wake of a Body of Revolution with Application to Submarine Wakes¹ JUAN JIMENEZ, ALEXANDER SMITS, Princeton University — Wake characterization studies over a DARPA SUBOFF submarine model have been conducted in the Princeton Universitys High Reynolds Number Test Facility. The Reynolds Numbers based on model length ranged between 10^6 and approximately 10^8 , and the wake of the model was studied at locations 3 to 15 diameters downstream. The model was supported by a streamlined strut that was formed by the extension of the sail appendage with no other appendages attached to the body. Mean velocity, turbulence intensities, and spectra information are presented.

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