

Abstract Submitted
for the MAR09 Meeting of
The American Physical Society

Swimming in a vortex street¹ SILAS ALBEN, Georgia Tech — Recent studies showed that a trout swimming in a cylinder wake can save energy by “slaloming” through a vortex street. We present a simple model using a flexible body with vortex sheets, and find swimming shapes which maximize output power and efficiency. We find analytic solutions and compare the optimal swimming phase between the body and vortices with previous experiments and numerics.

¹NSF-DMS support is acknowledged.

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Date submitted: 07 Nov 2008

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