

Abstract Submitted
for the DFD19 Meeting of
The American Physical Society

Circular towing: a restricted case JAMES HANNA, University of Nevada, Reno — Dynamic equilibria of strings in fluids are relevant to a variety of situations including fiber sedimentation and cable towing. Here I consider a highly restricted special case of steadily rotating planar configurations experiencing purely normal linear drag forces, for which analytical results may be obtained. The resulting shapes approach Fermat spirals at sufficiently large radius.

James Hanna
University of Nevada, Reno

Date submitted: 29 Jul 2019

Electronic form version 1.4