

Abstract Submitted
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Taming a flow with a string¹ STEPHANE DORBOLO, FNRS, GRASP, Departement de Physique B5, NICOLAS VANDEWALLE, BAPTISTE DARBOIS-TEXIER, GRASP, Departement de Physique B5, GRASP TEAM — The speed of a liquid jet out of a pipe is a function of the flow and of the pipe section. Consequently, the trajectory of the liquid jet is governed by the flow and the geometry of the pipe (section and angle with respect to the gravity). We propose to regulate the trajectory of the jet by introducing a flexible wire in the outflow. According to the flow and according to the length of the wire, three regimes can be obtained: (i) no change, (ii) the control of the trajectory, (iii) the guide of the jet direct downwards the vertical. We also show that the wire acts as a free pipe.

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