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Marino Belloni* (marino.belloni@unipr.it), Dipartimento di Matematica, Università di Parma, Parco Area delle Scienze, 53/A, I-43100 Parma, Italy. *The Newton's problem of minimal resistance.*

We study the problem of finding a body, moving through a fluid with given constant velocity, having minimal resistance: this is the so-called Newton Problem of Minimal Resistance. We will show an existence result when the profile in the admissible class satisfy bounds on the mean curvature. (Received August 19, 2005)