



ESPCI  
Laboratoire PMMH  
10 rue Vauquelin, 75231 Paris Cedex 05



# Séminaire café - PMMH

*Bureau d'Études, Batiment L, 2<sup>ème</sup> étage*

*Jeudi 20 octobre 2016, 13h30*

## Eliott Varon

Doctorant au PMMH, ESPCI

**Feedback control of a bi-modal Ahmed body wake  
(Or on the way to energy saving when driving).**

The design of efficient vehicles requires to identify and reduce the main sources of energy consumption, such as the aerodynamic drag. The studies of the flow around the road vehicle model proposed by Ahmed *et al.* (1984) reveal the different behaviors of the wake, depending on the slant angle. The presented case is a square-back body from which, especially, a bi-modal wake arises at high Reynolds number. The wake dynamics and its control through real-time PIV will be discussed.

Prochain séminaire : jeudi 27 octobre 2016 à **13h30**,  
Matthieu Labousse (post-doctorant au MPQ, Université Paris Diderot).

Programme des séminaires café : <https://www.pmmh.espci.fr/?-Seminaire-Cafe-Interne->  
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