

LadHyX Seminar – September 9, 11:00

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**Wake effects on the aerodynamics of 3D bluff-bodies with ground proximity -
application to car aerodynamics**

About ten years ago, the wake of simplified car models was revealed to be subject to a 3D generic steady instability responsible for its permanent asymmetry. The talk will present recent experimental investigations on how this instability affects the aerodynamics of an academic geometry (components of drag, lift and side force) for various pitch, yaw and ground clearance. The importance of such instability for real cars aerodynamics will be addressed.