

ESPCI

Laboratoire PMMH 10 rue Vauquelin, 75231 Paris Cedex 05



Séminaire PMMH

Bureau d'Études, Bâtiment L, 2 ème étage Vendredi 4 décembre 2015, 11h00-12h00

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Waves and wakes at different scales

Simply by looking at a duck swimming in a pond or a cargo ship moving on a calm sea, one can clearly tell that there is something common about their wake. Indeed, they both display a familiar V-shaped pattern which only differ from one another by their dimensions. In 1887, Lord Kelvin was able to provide a theory to explain the ship-wave pattern. His most popular achievement was to prove that the wake created by a disturbance moving at a uniform pace is always delimited by a straight wedge with half-angle 19.5 degrees, independent of the velocity of the disturbance. Recently, Kelvin's century old and well accepted theory was challenged, by that drawing the attention of the fluid dynamics community...

Prochain séminaire : vendredi 11 décembre, Christophe Eloy (IRPhE, Marseille) Programme des séminaires : www.pmmh.espci.fr, onglet Séminaires PMMH Contact : Ramiro Godoy-Diana, Étienne Reyssat, seminaires@pmmh.espci.fr