On the kinetic incompressible Euler equation and some of its avatars.

Daniel Han-Kwan[*1]

[1]Centre de Mathématiques Laurent Schwartz (CMLS) – Polytechnique - X, Centre National de la Recherche Scientifique : UMR7640 – Ecole Polytechnique 91128 Palaiseau, France

Abstract

We will review some aspects of the so-called kinetic incompressible Euler equation and explain how it relates to two other classical models from fluid mechanics: the incompressible Euler equations with several phases and the hydrostatic Euler equations. In particular we will give an application to the Cauchy theory for the hydrostatic Euler equations.

[*]Speaker