
Recent advances concerning the three-dimensional primitive equations of atmospheric and oceanic dynamics

Edriss Titi^{*†1}

¹Texas AM University and Weizmann Institute of Science – Department of Mathematics, Texas AM University, 4468 - TAMU, College Station, TX 77843, United States

Abstract

In this talk I will survey some of the recent advances concerning the global regularity of the three-dimensional primitive equations of atmospheric and oceanic dynamics with various kinds of anisotropic viscosity and diffusion. Moreover, I will also show the finite-time blowup for certain class of solutions of the non-viscous primitive equations.

*Speaker

†Corresponding author: titi@math.tamu.edu