

Blow-up for 3D Euler Equations via partial Hessian of Pressure

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ABSTRACT

In this talk, we discuss possible blow-up of 3D Euler equations. When the smooth solutions of the Euler equations quits to be smooth, many physical quantities break down simultaneously. Thus, they give possible criterion for the blow-up. Among others, we discuss criterions for the blow-up via components of Hessian of the pressure.