

- 報告題目: A quasi compressible-Stokes iteration scheme with applications to subsonic flows at the high Reynolds number
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## **地 点**:思源楼 803

宴:

摘

Even though there are extensive studies on the stability/instability of different hydrodynamic patterns in various physical settings, particularly in the high Reynolds number limit of laminar flows for the incompressible Navier-Stokes equations, there are much fewer mathematical results in the compressible setting.

This talk will present a new approach to studying the compressible Navier-Stokes equations in the subsonic and high Reynolds number regimes. The main ingredient is introducing two new operators involving quasi-compressible and Stokes approximations. And then, an iteration scheme is defined by applying these operators to solve the linearized compressible Navier-Stokes equations. Some applications of this approach will also be discussed.