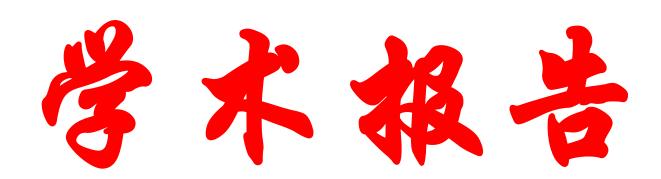
中国科学院数学与系统科学研究院应用数学所



偏微分方程及其应用中心



報告級目: Arnold-type stability theorems on a sphere

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We will discuss several Arnold-type stability theorems for steady or rotating 摘 solutions of the incompressible Euler equation on a 2-sphere. As an important application, we obtain the orbital stability of degree-2 Rossby-Haurwitz waves. We will also discuss some sharp rigidity results for solutions of semilinear elliptic equations on a sphere as byproducts.