

[Ambrosetti, Antonio](#)

**Remarks on a bifurcation problem in fluid dynamics.** (English) Zbl 1248.37074

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Summary: We sharpen some results obtained in [*A. Marino*, *Rend. Sem. Mat. Univ. Padova* 38, 199–216 (1967; [Zbl 0155.54602](#)); *V. Welte*, *Arch. Ration. Mech. Anal.* 16, 97–125 (1964; [Zbl 0131.41808](#))] dealing with a bifurcation problem arising in fluid dynamics.

**MSC:**

[37N10](#) Dynamical systems in fluid mechanics, oceanography and meteorology

[76D05](#) Navier-Stokes equations for incompressible viscous fluids

[37G99](#) Local and nonlocal bifurcation theory for dynamical systems

**Keywords:**

fluid dynamics; Navier-Stokes equation; stationary motion of viscous fluids; bifurcations