

# **The Effect of the Gap Width on the Instability and Bifurcation of Flows between Two Rotating Porous Cylinders**

**L. Shapakidze**

Razmadze Mathematical Institute of Iv. Javakishvili Tbilisi State University  
e-mail: luiza@rmi.ge

## **ABSTRACT**

The report presents the results of numerical analysis of the instability and bifurcations of flows between two rotating porous cylinders when the width of a gap between them gradually increases.

The modes, which may arise after the main flows with a superposed radial flow and a radial temperature gradient lose their stability, are studied for various values of the Prandtl number.