

Analele Universității București, Matematică  
Anul LVII(2008), pp. 183–188

## Numerical method for steady free surface ideal flows

Tiberiu IOANA, Titus PETRILA

**Abstract** - For solving the steady free surface flows for ideal potential heavy fluids a numerical method based on an optimization approach is considered. An algorithm is proposed and numerical solutions are presented.

**Key words and phrases** : incompressible inviscid fluids, free surface flows, optimization and variational techniques.

**Mathematics Subject Classification** (2000) : 76B07, 65K10