

Pozvánka na přednášku
Prof. Dr. Michaela Dellnitz
^z
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”Exploring the Oceans with Mathematics”

Přednáška se koná

ve čtvrtek 30.11.2017 v 17:00 v posluchárně AI,

1. patro, budova A VŠCHT Praha, Technická 5, Praha 6

Abstract. An important factor for the development of the climate are transport phenomena in the oceans. For instance, the Agulhas current in the Indian Ocean flows down the east coast of Africa and is creating so-called Agulhas rings at Cape Agulhas, which is the most southern tip of Africa. These rings are eddies transporting warm saline waters from the Indian Ocean into the Atlantic Ocean. It is of interest to quantify this type of transport by the analysis of related mathematical models.

Over the last years we have developed numerical tools which allow to analyze global phenomena of this type in dynamical systems. These techniques are based on a discretization of the so-called transfer operator and have a wide range of applications. They can be used, in particular, to approximate the three-dimensional transport of heat by the Agulhas rings mentioned above. In this talk we will introduce the related numerical approach, and we will illustrate its applicability by several real world problems.

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Všichni zájemci jsou srdečně zváni.

Za Ústav matematiky VŠCHT Praha:

Prof. RNDr. Drahoslava Janovská, CSc.