International scientific conference

«Algebraic and geometric methods of analysis»

Book of abstracts

ЕЛЕОНАХТ

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http://imath.kiev.ua/~topology/conf/agma2017/

List of topics

- Algebraic methods in geometry
- Differential geometry in the large
- Geometry and topology of differentiable manifolds
- General and algebraic topology
- Dynamical systems and their applications
- Geometric problems in mathematical analysis
- Geometric and topological methods in natural sciences
- History and methodology of teaching in mathematics

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НТБ ОНАХТ

Topology of the basin of attraction of surface endomorphisms.

Vlasenko I.
(Institute of Mathematics of NAS of Ukraine, Kiev)
E-mail: vlasenko@imath.kiev.ua

Let $f : M \to M$ be a branched covering, i.e. an inner (open and isolated) map of a surface M. A map is open if the image of an open set is open. A map is isolated if the pre-image of a point consists of isolated points.

Let (A, R) be a (topological) attractor-repeller pair. There is the continuum of different attractor-repeller pairs with the same basin of attraction. The question is: is there the smallest attractor for the given basin of attraction? If it exists, what are its topological properties?

Rerefences

[1] И. Ю. Власенко *Внутренние отображения: топологические инварианты и их приложения*, - Институт математики НАН Украины. Киев. – 2014.

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