ICMAT
INSTITUTO DE CIENCIAS MATEMÁTICAS

EXCELENCIA SEVERO OCHOA

Thematic Research Programme

Current Trends in Geometric Methods in Natural Sciences

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ICMAT, Madrid
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Seminar

MINIMIZERS AND OTHER STEADY EULER SOLUTIONS ON SASAKIAN 3-MANIFOLDS

SPEAKER: Radu Slobodeanu (University of Bucharest)

DATE: Thursday, 3 October 2019 - 15:00

VENUE: Aula Gris 1, ICMAT

ABSTRACT: We provide the answer to the question whether the Reeb vector field of any Sasakian 3-manifold is an L^2-energy minimizer in its SDiff-orbit, as it is the case of the Hopf vector field on the round 3-sphere. In addition we present some new (unpublished) steady Euler solutions on the round 3-sphere. Among them there is a family of non-vanishing Beltrami fields, whose associated contact structure will be investigated in the last part of the talk from the topological point of view.

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