DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
UNIVERSITY OF SOUTHERN DENMARK, ODENSE

Mathematics seminar

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Geometry with reference to symmetry

Thursday 22 October 2015, 13:15-14:00
IMADA seminar room

Abstract

Examples of Riemannian metrics can be difficult to find if we also ask that they solve particular equations, such as Einstein's equations.

One way around this problem is to impose symmetry. In this talk I shall discuss different aspects of geometry defined with reference to symmetry in the form of a Lie group action. Particular emphasis will be given to geometries that are defined by closed differential forms.

Whilst symplectic geometry is the classical example, my main focus will be on forms of degree three and four.

Host: Wojciech Szymanski