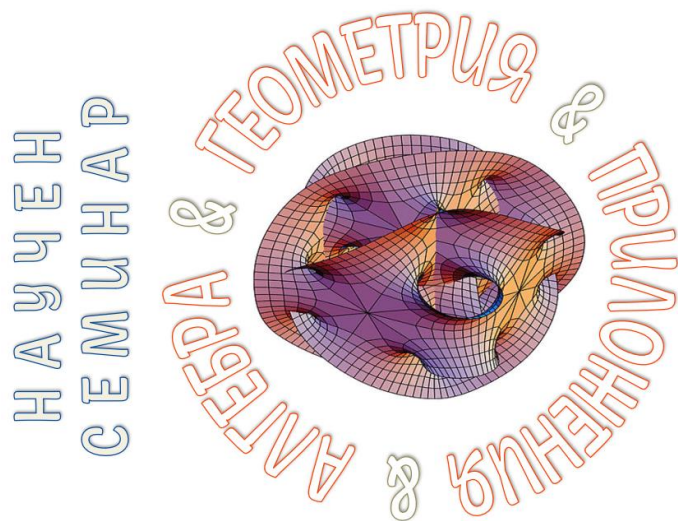




Сбирка 34

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Тема:

CLASSIFICATION OF Π -MANIFOLDS REGARDING THE PSEUDO-RIEMANNIAN METRIC ASSOCIATED THROUGH THE STRUCTURE

Лектор: ас. ВУКТОРИЯ КУНЧЕВА с научен ръководител ПРОФ. ДМН М. МАНЕВ

Резюме: The study of the so-called Π -manifolds has been continued. This is a short name for almost paracontact almost paracomplex manifolds with a pair of metrics—Riemannian and pseudo-Riemannian—that are mutually related and compatible with the structure of the manifold. The well-known classification of these manifolds with respect to the Riemannian metric has been used to derive an alternative classification of the same manifolds with respect to the pseudo-Riemannian metric. The interrelations between the two classifications and the corresponding classification tensors are investigated. Finally, a three-dimensional explicit example on a Lie group is given, which illustrates the most interesting case of the transition from one classification to the other.

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