НАУЧЕН СЕМИНАР

АЛГЕБРА & ГЕОМЕТРИЯ & ПРИЛОЖЕНИЯ

Сбирка 35

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Тема:

Characterization of Π-Manifolds by the Difference Between the Two Levi-Civita Connections of the Structure

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Резюме: Almost paracontact almost paracomplex manifolds equipped with a pair of structure-compatible metrics, one Riemannian and the other pseudo-Riemannian, are considered. The difference tensor Φ between the two corresponding Levi-Civita connections is studied within the framework of the known Manev–Staikova classification of these manifolds. The obtained characterizations of the basic classes in terms of the difference tensor are illustrated by means of Lie groups of the lowest dimension. Finally, we consider explicit examples of 3-dimensional Lie groups regarded as Π-manifolds belonging to all basic classes. The corresponding characteristics are computed in terms of the components of Φ, thereby illustrating the obtained theoretical results.

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