

On geodesic mappings

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We study fundamental equations of geodesic mappings of manifolds with affine and projective connection onto (pseudo-) Riemannian manifolds with respect to the smoothness class of these geometric objects. We prove that the natural smoothness class of these problems is preserved. We will speak about geodesic mappings of Einstein spaces.

This is a joint work with Irena Hinterleitner.

- [1] Mikeš J at al. Differential geometry of special mappings. Palacky University Press, Olomouc. 2015.
 - [2] Hinterleitner I, Mikeš J. Geodesic mappings and differentiability of metrics, affine and projective connections. Filomat 2015; 29(6): 1245-1249.
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