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Infinitesimal symmetries of helix lines in the plane space.

Mat. Metody Fiz.-Mekh. Polya 15, 35-39 (Russian) (1982).

The problem of infinitesimal point transformations with the symmetry of the helix in pseudo-Euclidean spaces is investigated. It is shown that such symmetric transformations in spaces with more than two dimensions can only be represented by generators of the group of homogeneous fraction and of the pseudo-Euclidean group. In the two-dimensional space these symmetries build an algebra of a conformal group. The same symmetries are characteristic for lines with constant curvature. The invariances of the transformations are discussed.

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