ON THE SYMMETRIES OF LORENTZIAN FOUR-DIMENSIONAL GENERALIZED SYMMETRIC SPACES OF TYPE C

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Abstract. We consider the four-dimensional generalized symmetric spaces of type C, equipped with a left-invariant Lorentzian metric. We completely describe its affine, homothetic and Killing vector fields. We also obtain a full classification of its Ricci, curvature and matter collineations.

MSC 2010. 53C50, 53B30.

Key words. Generalized symmetric spaces, left-invariant metrics, Killing vector fields, affine vector fields, Lorentzian metrics, curvature and matter collineations.

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