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Products of symmetric spaces

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Abstract

Symmetric spaces are classical and very important spaces among generalized metric spaces. In this paper, for a subspace of a product of symmetric spaces, we give a characterization for the subspace to be symmetric. Also, as applications, we consider necessary and sufficient conditions for products of symmetric spaces to be symmetric.

AMS classification: Primary 54B10, 54E25, 54E99, Secondary 54B15, 54D50

Key words: Symmetric spaces; Semi-metric spaces; Quasi- k -spaces; \aleph -spaces; Determining covers; Quotient maps

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