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SOME METRICAL PROBLEMS ON SYMMETRIC GROUPS WITH ROSENBLOOM- TSFASMAN METRIC

W.B. Vasantha Kandasamy and R.Rajkumar

In this paper we study the properties of Rosenbloom-Tsfasman metric on the symmetric groups. The invariance properties of this metric on permutation groups are described. The volume of the spheres and balls in this metric space are discussed. This paper has three sections. Section one the basic notions such as the metric on symmetric permutation group. In section two we recall the definition of RT metric on symmetric groups as defined by the authors. In section three we derive some metrical problems on $(S_{n,d} p)$.

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e-mail: vasanthakandasamy@gmail.com

web: http://mat.iitm.ac.in/wbv/public_html/home.htm