

ON REVERSE ISOPERIMETRIC INEQUALITIES IN TWO-DIMENSIONAL SPACE FORMS AND RELATED RESULTS

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Abstract. In this paper, we investigate the curvature radius of strictly convex domains in two-dimensional space forms. We obtain a class of new reverse isoperimetric inequalities which provide a measure for the deviation of a strictly convex domain from a geodesic disc, via the maximum and the minimum of the curvature radius of its boundary.

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