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Coefficients of symmetric functions of bounded boundary rotation. (English)
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Author's abstract. The well-known inclusion relation between functions with bounded boundary rotations and close-to-convex functions of some order is extended to m-fold symmetric functions. This leads solving the corresponding result for close-to-convex functions to the sharp coefficient bounds for m-fold symmetric functions of bounded boundary rotation at most $k\pi$ when $k \geq 2m$. Moreover it shows that an m-fold symmetric function of bounded boundary rotation at most $(2m+2)\pi$ is close-to-convex and thus univalent.

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Keywords : functions with bounded boundary rotations; close-to-convex functions; m-fold symmetric functions

Classification:

- 30C50 Coefficient problems for univalent and multivalent functions
- 30C45 Special classes of univalent and multivalent functions