E. Sevost'yanov, V. Targonskii. *An analogue of Koebe's theorem and the openness of a limit map in one class* // Analysis and Mathematical Physics. – 2025. – V. 15, No. 3. – Article number 59.

https://link.springer.com/article/10.1007/s13324-025-01058-6

Abstract. We study mappings that satisfy the inverse modulus inequality of Poletsky type in a fixed domain. It is shown that, under some additional restrictions, the image of a ball under such mappings contains a fixed ball uniformly over the class. This statement can be interpreted as the well-known analogue of Koebe's theorem for analytic functions. As an application of the obtained result, we show that, if a sequence of mappings belonging to the specified class converges locally uniformly, then the limit mapping is open.