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STAGNATION ZONES OF SOLUTIONS TO THE LAPLACE–BELTRAMI EQUATION IN LONG STRIPS

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We study the stagnation zones for solutions to the Laplace–Beltrami equation, i.ethe domains (s-zones) in which the solutions are close to constants. The estimates for the sizes of s-zones in long strips are pointed out for various types of boundary conditions.

Key words and phrases: stagnation zone, Laplace–Beltrami equation, Saint-Venant principle, long and narrow strips.

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