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ON THE REGULARITY OF TRACES FOR LIPSCHITZ STRONG LOCAL
MINIMIZERS OF INTEGRAL FUNCTIONALS ON STAR-SHAPED DOMAINS
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Abstract: We define the notion of regularity of traces of divergence-free fields. We then show that such regularity is a property of all strong local minimizers. Next we prove that the regularity of traces coupled with classical necessary conditions for strong local minima is sufficient for attainment of the minimum.