

Optimal Control Problem on non-convex Domains

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In a recent paper Meyer and Rösch prove superconvergence properties in the control variable for linear-quadratic optimal control problems in convex domains. We generalize these results for non-convex domains. The corner singularities are treated by a-priori mesh grading such that we are able to prove results of the same quality as in the case of regular solutions. Numerical examples are presented.

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