

**Steiner symmetrization for an elliptic problem
with lower-order terms**

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Abstract

In this paper the following model problem is considered

$$\begin{cases} -u_{xx} - u_{yy} + c(x, y)u = f(x, y) & \text{in } G \\ u \in H_0^1(G) \end{cases}$$

where G is an open, bounded and connected subset of R^2 . We prove some comparison results by using Steiner symmetrization. The parabolic case is also considered.