

A DD Solver for Fourth Order Elliptic Problems

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ABSTRACT

In this talk we will discuss a nonoverlapping domain decomposition (DD) solver for fourth order elliptic problems. There are two key ingredients in the proposed DD solver: one is a subspace decomposition of the finite element space and the other is a procedure based on balancing domain decomposition by constraints. Theoretical results on the condition number estimate of the resulting system will be presented along with numerical results.

REFERENCES

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