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# A multimaterial topology optimisation approach to Dirichlet control with piecewise constant functions

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## Abstract

In this talk we study a Dirichlet control problem for the Poisson equation, where the control is assumed to be piecewise constant function which is allowed to take  $M \geq 2$  different values. The space of admissible Dirichlet controls is non-convex and therefore standard derivatives in Banach spaces are not applicable.

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