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A Dirichlet problem involving the divergence operator

Abstract

Given a vector field a and a function f we want to find a vector field u such that

$$\begin{cases} \operatorname{div} u + \langle a; u \rangle = f & \text{in } \Omega \\ u = 0 & \text{on } \partial\Omega. \end{cases}$$

This talk is based on a joint work with Gyula Csato.