

On a Degenerate Eddy Current Problem

Rainer Picard (joint work with Dirk Pauly)

Fachrichtung Mathematik, Institut für Analysis, TU Dresden, Dresden, Germany

`rainer.picard@tu-dresden.de`

ABSTRACT

We consider a degenerate eddy current problem, which amounts to an abstract elliptic-parabolic coupling problem. A solution theory is developed for an abstract class of operator equations in the framework of so-called evo-system (evolutionary equations). In particular, the degenerate eddy current problem can be treated as an application.