



Karlstad Applied Analysis Seminar (2020)

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Homogenization of boundary value problem on a thin structure

Abstract

In this talk, we will discuss the homogenization of a boundary value problem posed on a domain with an oscillating boundary. The homogeneous Neumann condition is prescribed on the oscillating part of the boundary. We will explain the homogenization results in the sense of weak L^2 convergence of the solutions and their flows. We will look into the application of unfolding operators to various types of oscillating domains.