

Asymptotic behaviour of the heat equation in the twisted waveguides

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We consider the heat equation in a straight strip, subject to a combination of Dirichlet and Neumann boundary conditions. It is known that the switch of the respective boundary conditions leads to an improvement of the decay rate of the heat semigroup. This result is supported by some examples evolved in MATLAB environment. This is a joint work with David Krejčířík and Miloš Tater.