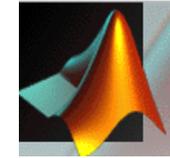


Beispiel 2.7: Helmholtz-Gleichung

PDE Toolbox: Eigenwertprobleme



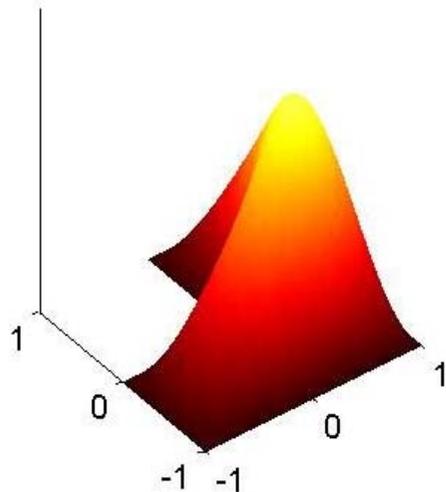
Matlab
PDE Toolbox

$$\nabla \cdot (c \nabla u) + \lambda d u + a u = 0$$

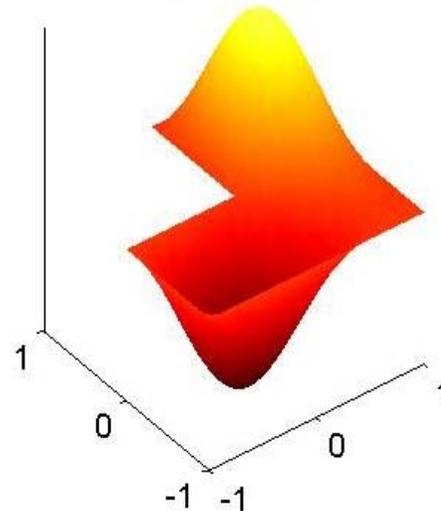
Beispiel: L-förmige Membran $c = 1$, $d = 1$, $a = 0$

- L-förmiges Gebiet Ω
- homogene Randbedingungen $u = 0$

$\lambda = 9.670$



$\lambda = 15.224$



$\lambda = 19.784$

