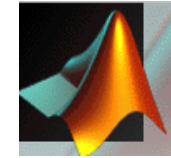


# Beispiel 1.10: Helmholtz-Gleichung

PDE Toolbox: Eigenwertprobleme



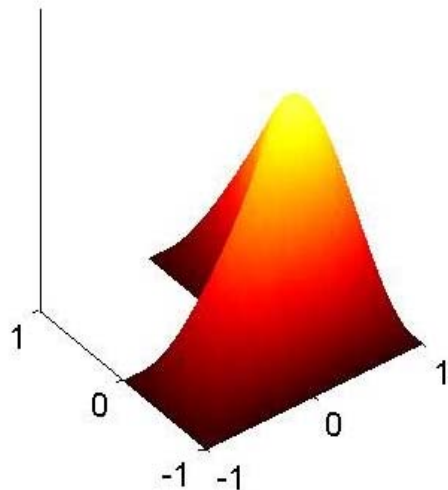
Matlab  
PDE Toolbox

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

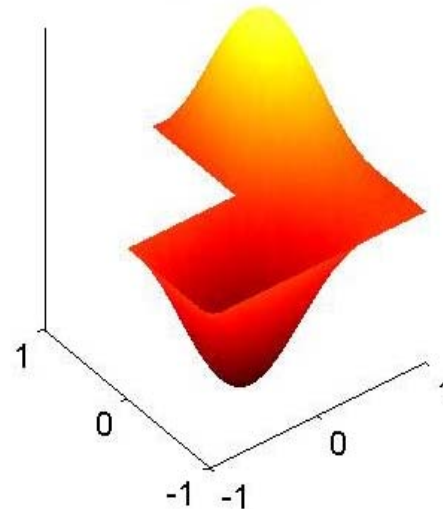
**Beispiel:** L-förmige Membran  $c = 1$ ,  $d = 1$ ,  $a = 0$

- L-förmiges Gebiet  $\Omega$
- homogene Randbedingungen  $u = 0$

$\lambda = 9.670$



$\lambda = 15.224$



$\lambda = 19.784$

