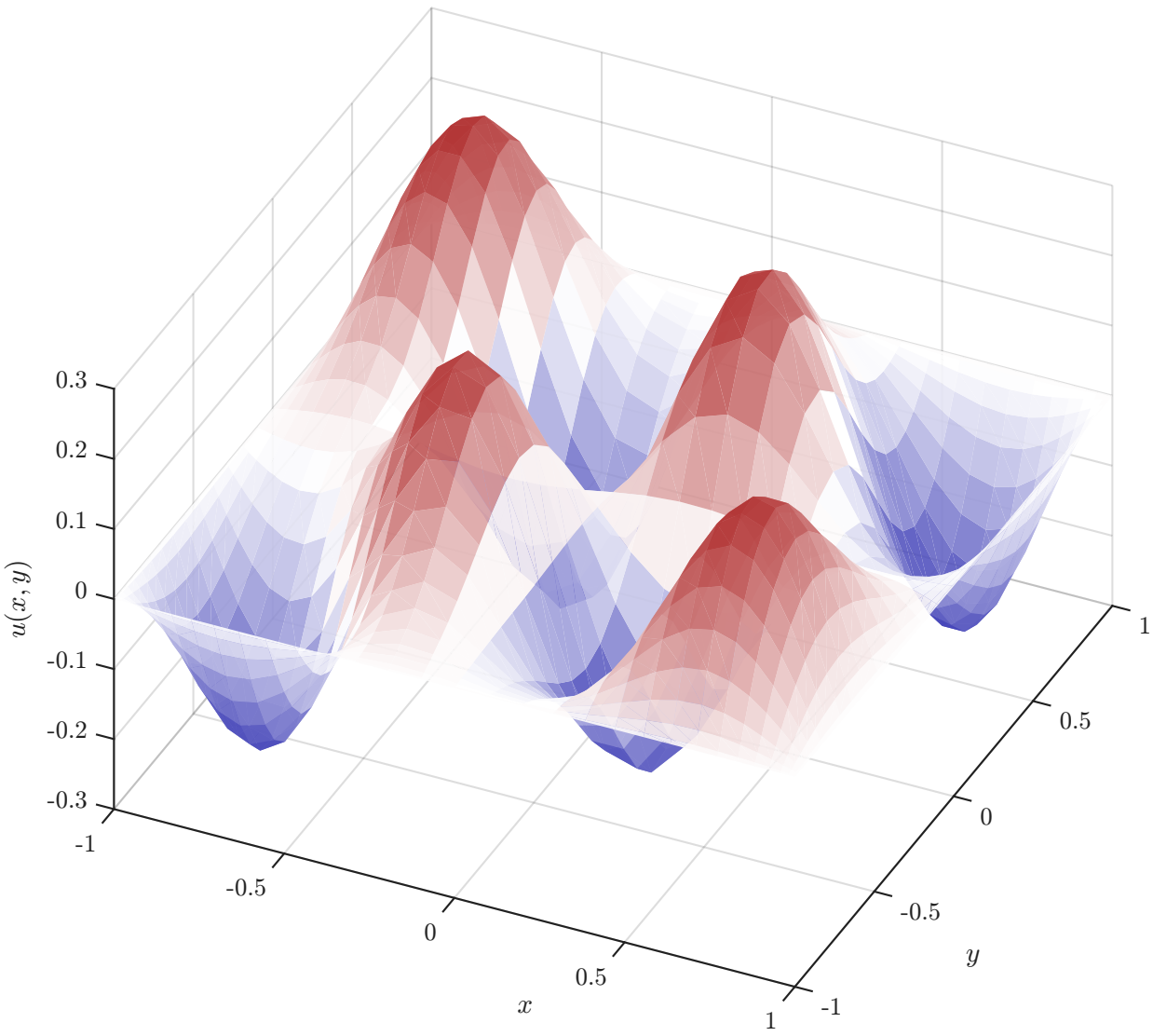Helmholtz Equation: $\nabla^2 u + k^2 u = f(x,y)$ ($k = 7.0$, near (2,4) resonance at $k = 7.02$)

Solution ($k = 7.0$)

Contour Plot

$u(x,y)$

x

y

data1
data2
Forcing center

$u(x,y)$

x

y