

Question 4: Implementing the image denoising problem

In [5]:

```

import matplotlib.pyplot as plt
%matplotlib inline

from dolfin import *
import math
import numpy as np
import logging
from unconstrainedMinimization import InexactNewtonCG
plt.rcParams.update({'font.size': 22})
plt.rcParams.update({'font.family': 'Times'})

logging.getLogger('FFC').setLevel(logging.ERROR)
logging.getLogger('UFL').setLevel(logging.ERROR)
set_log_level(LogLevel.ERROR)

# Set the level of noise:
noise_std_dev = .3

# Load the image from file
data = np.loadtxt('image.dat', delimiter=',')
np.random.seed(seed=1)

noise = noise_std_dev*np.random.randn(data.shape[0], data.shape[1])
Lx = float(data.shape[1])/float(data.shape[0])
Ly = 1.

mesh = RectangleMesh(Point(0,0),Point(Lx,Ly), 200, 100)
V = FunctionSpace(mesh, "Lagrange",1)

# Generate the true image (u_true) and the noisy data (u_0)
class Image(UserExpression):
    def __init__(self, Lx, Ly, data, **kwargs):
        super().__init__(kwargs)
        self.data = data
        self.hx = Lx/float(data.shape[1]-1)
        self.hy = Ly/float(data.shape[0]-1)

    def eval(self, values, x):
        j = int(math.floor(x[0]/self.hx))
        i = int(math.floor(x[1]/self.hy))
        values[0] = self.data[i,j]

    def value_shape(self):
        return ()

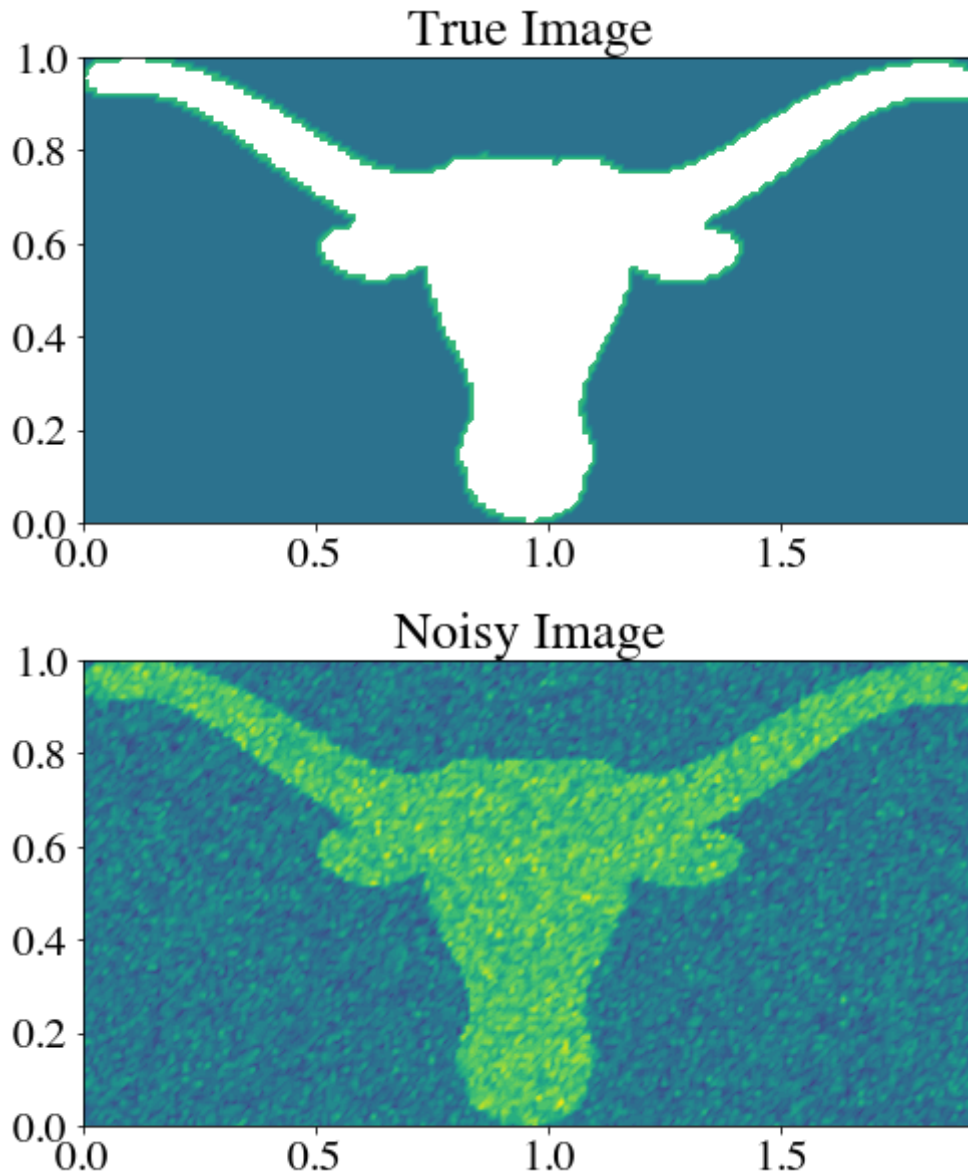
trueImage = Image(Lx, Ly, data, element=V.ufl_element())
noisyImage = Image(Lx, Ly, data+noise, element=V.ufl_element())

u_true = interpolate(trueImage, V)
u_0 = interpolate(noisyImage, V)

vmin = np.min(u_0.vector().get_local())
vmax = np.max(u_0.vector().get_local())

```

```
plt.figure(figsize=[8,8])
plot(u_true, title="True Image", vmin=vmin, vmax = vmax)
plt.savefig("Q4_true.pdf")
plt.figure(figsize=[8,8])
plot(u_0, title="Noisy Image", vmin=vmin, vmax = vmax)
plt.savefig("Q4_Noisy.pdf")
plt.show()
```



Part (a): Solving using Tikhonov (TN) regularization

```
In [6]: # Denoising using TN regularization using linear solve

# Defining functional forms
def TN_functions(alpha_val):
    """ linear form - solve lhs == rhs """
    alpha = Constant(alpha_val)
    u_trial = TrialFunction(V)
```

```

u_test = TestFunction(V)
var_F_tn= (u_trial - u_0)*u_test*dx + alpha*inner(grad(u_trial), grad(u_test))
return lhs(var_F_tn), rhs(var_F_tn)

# TN regularization
alphas = np.logspace(-1,-6,6)
res_tn_norm = []
u_tn_norm = []
u_tn_list = []

for alpha in alphas:
    u_tn = Function(V)
    # linear solve
    a_tn, L_tn = TN_functions(alpha)
    solve(a_tn==L_tn, u_tn)

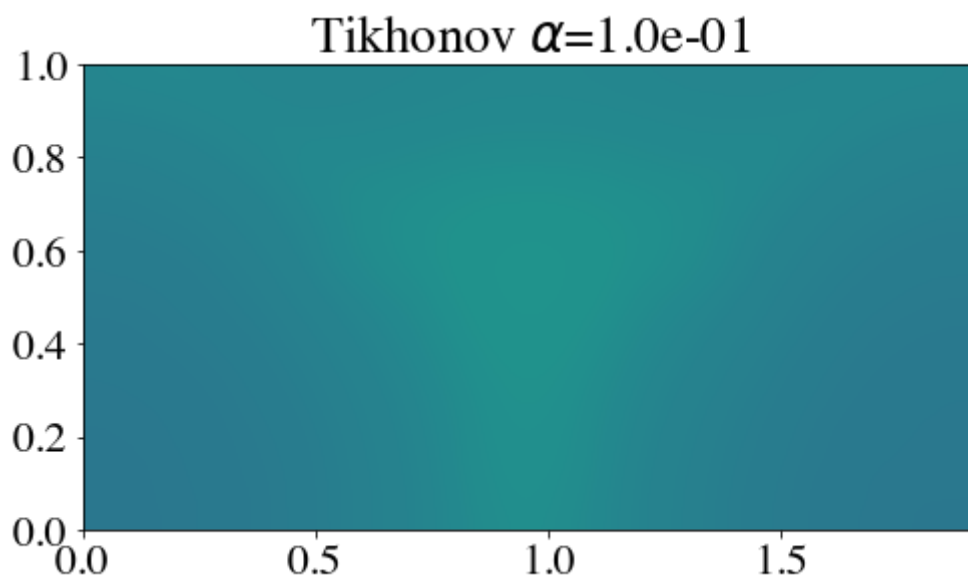
    # Misfit
    res_tn_norm.append(np.linalg.norm(u_tn.vector()[:] - u_0.vector()[:]))
    u_tn_norm.append(np.linalg.norm(u_tn.vector()[:]))
    u_tn_list.append(u_tn.copy())

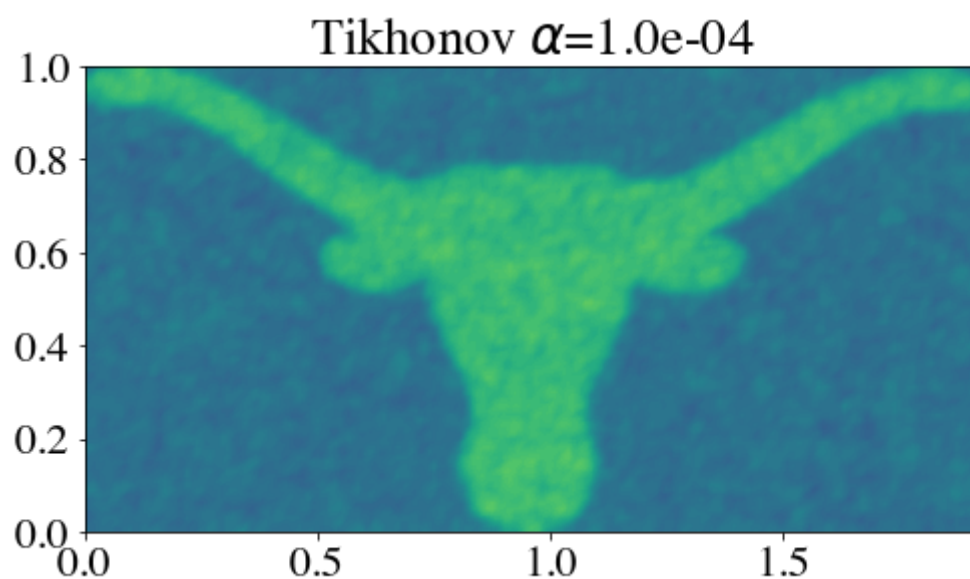
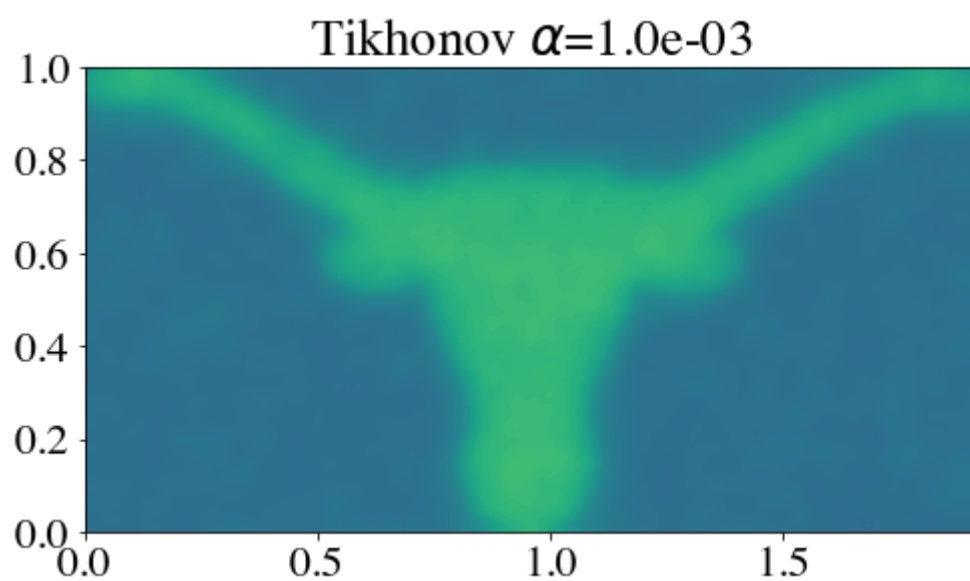
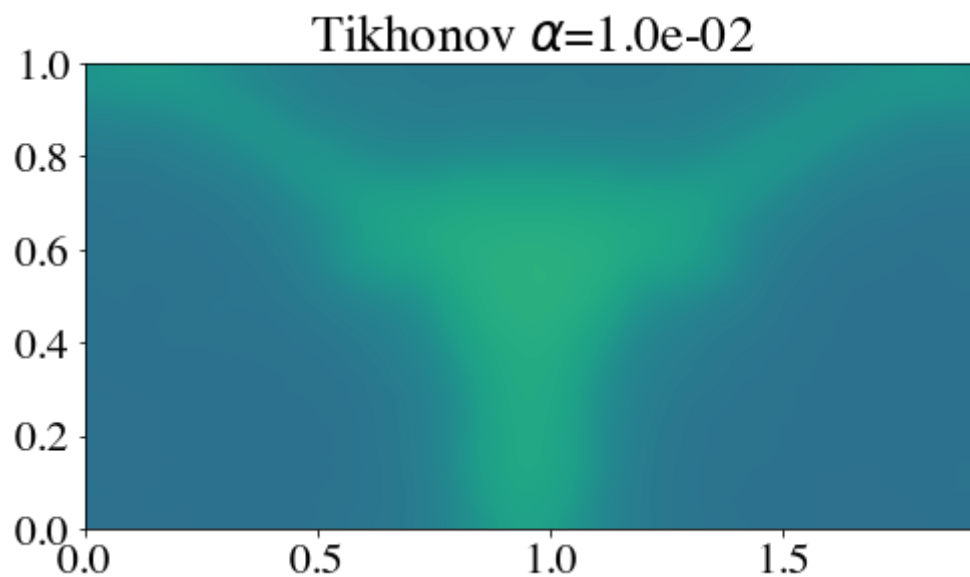
    #plotting the image
    plt.figure(figsize=(8,8))
    plot(u_tn, title="Tikhonov  $\alpha=1.0e-01$ " % (alpha), vmin=vmin, vmax = vmax)
    plt.savefig("Q4_TN_%.1e_.pdf" % (alpha))

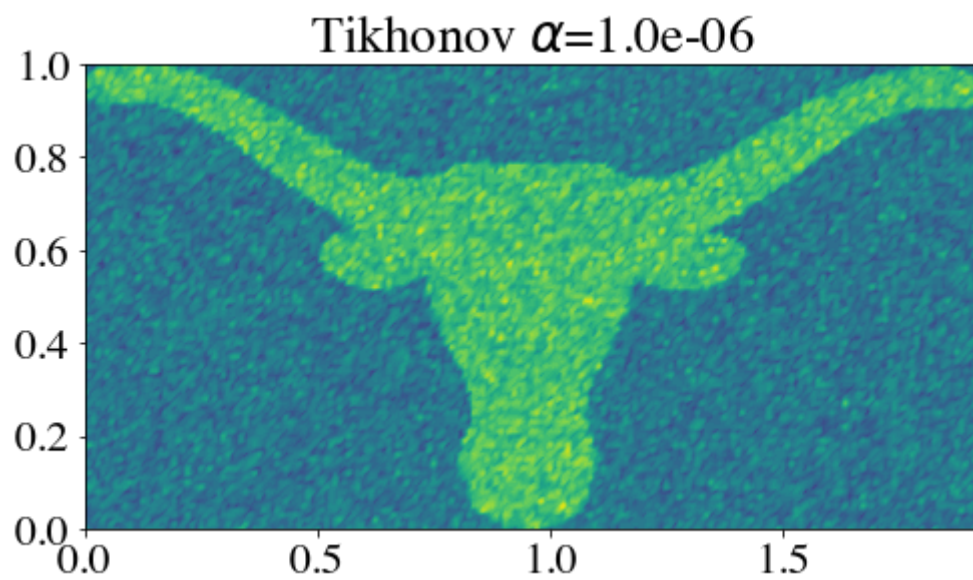
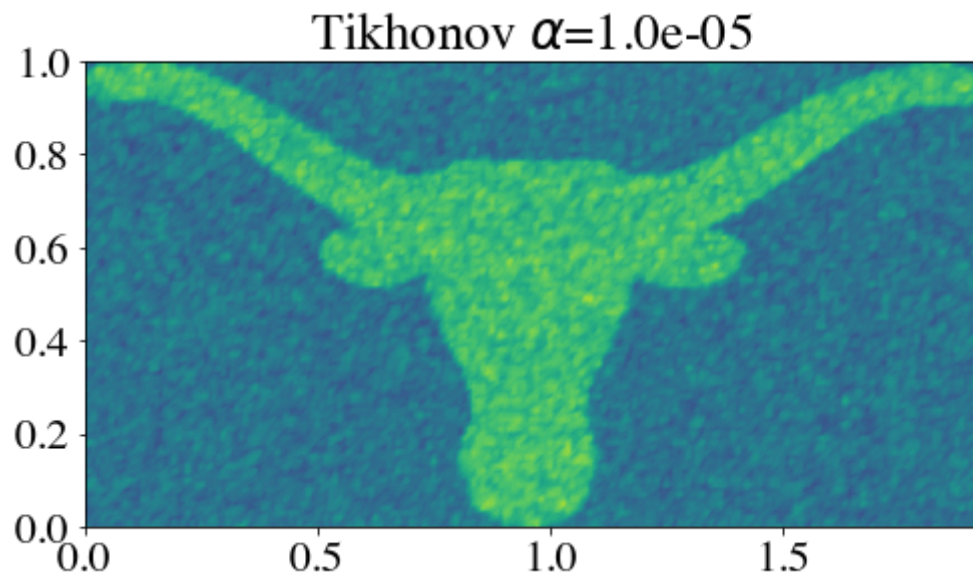
# plot l-curve
fig,ax = plt.subplots(figsize=(10,8))
plt.loglog(res_tn_norm, u_tn_norm, 'k--')
for i, txt in enumerate(alphas):
    ax.loglog(res_tn_norm[i], u_tn_norm[i], 'o')
    ax.annotate(txt, (res_tn_norm[i], u_tn_norm[i]))

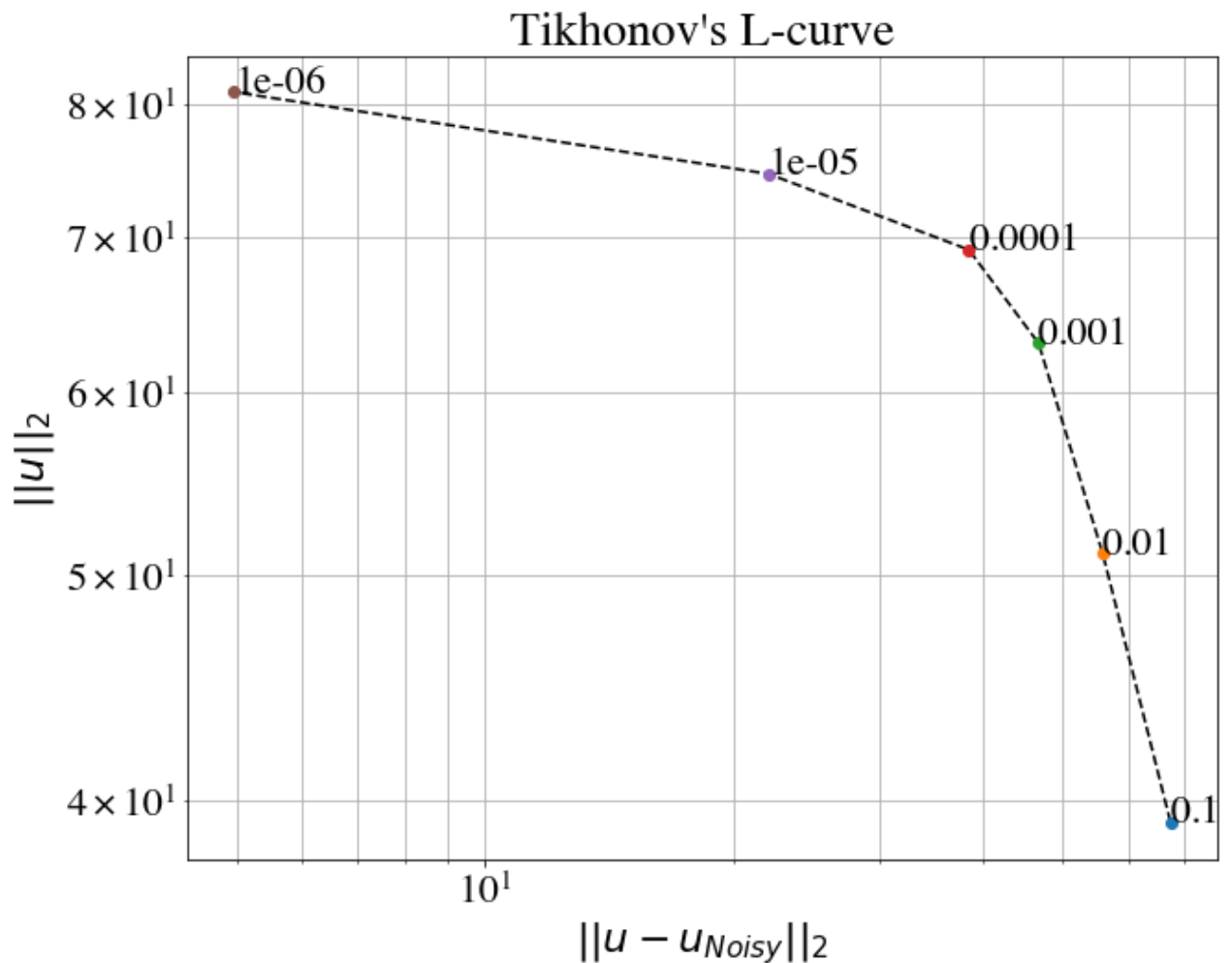
plt.grid(True, which="both")
plt.xlabel(r'$||u - u_{\text{Noisy}}||_2$')
plt.ylabel(r'$||u||_2$')
plt.title("Tikhonov's L-curve")
plt.savefig("Q4_TN_lcurve.pdf")

```









Optimal α is close to 10^{-3} since it is the point of the maximum curvature in the L-curve. Moreover, by visual inspection, it is clear that the image is free of oscillations without much diffusion for this value of regularization parameter.

Part (b): Solving using Total variation regularization

In [7]:

```
# Define solver
solver = InexactNewtonCG()
solver.parameters["rel_tolerance"] = 1e-6
solver.parameters["abs_tolerance"] = 1e-9
solver.parameters["gdu_tolerance"] = 1e-18
solver.parameters["max_iter"] = 5000
solver.parameters["c_armijo"] = 1e-5
solver.parameters["print_level"] = 1
solver.parameters["max_backtracking_iter"] = 10
```

In [8]:

```
# Denoising using TV regularization using linear solve
```

```

# Defining functional forms
def TV_functions(alpha_val,delta_val,u_func):
    """ linear form - solve lhs == rhs """
    alpha = Constant(alpha_val) #Regularization parameters
    delta = Constant(delta_val) #Added term in the regularization
    F_tv = Constant(0.5) * (u_func - u_0)**2 * dx + alpha * sqrt(inner(grad(u_f
    return F_tv

# TN regularization
alphas = np.logspace(0,-4,5)
delta = 0.01
res_tv_norm = []
u_tv_norm = []
u_tv_list = []

for alpha in alphas:
    u_tv = Function(V)
    F_tv = TV_functions(alpha,delta,u_tv)
    solver.solve(F_tv, u_tv)

    # Misfit
    res_tv_norm.append(np.linalg.norm(u_tv.vector()[:] - u_0.vector()[:]))
    u_tv_norm.append(np.linalg.norm(u_tv.vector()[:]))
    u_tv_list.append(u_tv.copy())

    #plotting the image
    plt.figure(figsize=(8,8))
    plot(u_tv, title="Total variation $\alpha$=%.1e" %(alpha), vmin=vmin, vmax
    plt.savefig("Q4_TN_%.1e_.pdf" %(alpha))

# plot l-curve
fig,ax = plt.subplots(figsize=(10,8))
plt.loglog(res_tv_norm, u_tv_norm,'k--')
for i, txt in enumerate(alphas):
    ax.loglog(res_tv_norm[i], u_tv_norm[i],'o')
    ax.annotate(txt, (res_tv_norm[i], u_tv_norm[i]))

plt.grid(True, which="both")
plt.xlabel(r'$||u - u_{Noisy}||_2$')
plt.ylabel(r'$||u||_2$')
plt.title("Total Variation's L-curve")
plt.savefig("Q4_TV_lcurve.pdf")

```

Using Symbolic Differentiation to compute the gradient

Using Symbolic Differentiation to compute the Hessian

| It | Energy | $ g $ | (g,du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| -cg | cg_it | | | | |
| 0 | 4.114996e-01 | 1.762820e-02 | -1.244924e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 4.113994e-01 | 1.679678e-03 | -1.998188e-04 | 1.000000e+00 | 5.000000e |
| -01 | 2 | | | | |
| 2 | 4.113992e-01 | 2.768329e-04 | -3.836712e-07 | 1.000000e+00 | 4.873592e |
| -01 | 1 | | | | |
| 3 | 4.113992e-01 | 2.153250e-05 | -4.511491e-08 | 1.000000e+00 | 1.978541e |
| -01 | 2 | | | | |
| 4 | 4.113992e-01 | 6.447811e-07 | -2.028117e-10 | 1.000000e+00 | 5.518021e |
| -02 | 3 | | | | |
| 5 | 4.113992e-01 | 2.410054e-09 | -5.147674e-14 | 1.000000e+00 | 9.548655e |
| -03 | 4 | | | | |

Norm of the gradient less than tolerance

Inexact Newton CG converged in 5 nonlinear iterations and 13 linear iteration

S.

Final norm of the gradient 2.410054389228049e-09

Value of the cost functional 0.4113992084764307

Using Symbolic Differentiation to compute the gradient

Using Symbolic Differentiation to compute the Hessian

| It | Energy | $ g $ | (g,du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| _cg | cg_it | | | | |
| 0 | 2.349789e-01 | 1.327545e-02 | -1.314655e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 2.331741e-01 | 3.147411e-03 | -3.013560e-03 | 1.000000e+00 | 5.000000e |
| -01 | 2 | | | | |
| 2 | 2.327542e-01 | 1.683222e-03 | -6.912124e-04 | 1.000000e+00 | 5.000000e |
| -01 | 2 | | | | |
| 3 | 2.326467e-01 | 9.175558e-04 | -1.806912e-04 | 1.000000e+00 | 4.878730e |
| -01 | 2 | | | | |
| 4 | 2.326282e-01 | 3.825577e-04 | -3.319789e-05 | 1.000000e+00 | 3.602071e |
| -01 | 2 | | | | |
| 5 | 2.326266e-01 | 7.188170e-05 | -3.136332e-06 | 1.000000e+00 | 2.325865e |
| -01 | 3 | | | | |
| 6 | 2.326266e-01 | 4.519389e-06 | -6.719993e-08 | 1.000000e+00 | 1.008197e |
| -01 | 4 | | | | |
| 7 | 2.326266e-01 | 9.157395e-08 | -1.892845e-10 | 1.000000e+00 | 2.527994e |
| -02 | 5 | | | | |
| 8 | 2.326266e-01 | 4.964225e-10 | -9.010542e-14 | 1.000000e+00 | 3.598505e |
| -03 | 7 | | | | |

Norm of the gradient less than tolerance

Inexact Newton CG converged in 8 nonlinear iterations and 41 linear iteration

S.

Final norm of the gradient 4.964224791091367e-10

Value of the cost functional 0.23262656583480001

Using Symbolic Differentiation to compute the gradient

Using Symbolic Differentiation to compute the Hessian

| It | Energy | $ g $ | (g,du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| _cg | cg_it | | | | |
| 0 | 1.859864e-01 | 5.212611e-03 | -1.795858e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 1.201357e-01 | 9.879401e-03 | -1.191994e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 2 | 1.152185e-01 | 1.385010e-02 | -6.056340e-02 | 5.000000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 3 | 1.106088e-01 | 1.279555e-02 | -3.785992e-01 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 4 | 1.046458e-01 | 1.151200e-02 | -3.269478e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 5 | 1.042907e-01 | 1.095296e-02 | -1.627935e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 6 | 1.037626e-01 | 1.052778e-02 | -1.580796e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 7 | 1.037016e-01 | 1.017335e-02 | -1.692858e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 8 | 1.032060e-01 | 9.900013e-03 | -1.701277e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 9 | 1.031387e-01 | 9.581754e-03 | -1.787761e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 10 | 1.025821e-01 | 9.332920e-03 | -1.735101e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 11 | 1.005952e-01 | 9.109342e-03 | -1.789125e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 12 | 1.003858e-01 | 8.945201e-03 | -7.318733e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 13 | 1.002530e-01 | 8.758111e-03 | -7.322344e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 14 | 1.000485e-01 | 8.579300e-03 | -6.357488e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 15 | 9.998370e-02 | 8.443755e-03 | -6.860593e-02 | 1.562500e-02 | 5.000000e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 1 | | | | |
| 16 | 9.976087e-02 | 8.313676e-03 | -6.252427e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 17 | 9.970939e-02 | 8.186603e-03 | -6.605956e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 18 | 9.951759e-02 | 8.052822e-03 | -6.181573e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 19 | 9.948068e-02 | 7.932705e-03 | -6.760597e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 20 | 9.926061e-02 | 7.810180e-03 | -6.168150e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 21 | 9.923107e-02 | 7.693883e-03 | -6.512519e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 22 | 9.905247e-02 | 7.579462e-03 | -6.135379e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 23 | 9.903016e-02 | 7.466387e-03 | -6.758938e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 24 | 9.881656e-02 | 7.357650e-03 | -6.132679e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 25 | 9.844974e-02 | 7.238892e-03 | -6.601966e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 26 | 9.844805e-02 | 6.967149e-03 | -1.676249e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 27 | 9.823221e-02 | 6.730192e-03 | -2.494748e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 28 | 9.810046e-02 | 6.536656e-03 | -2.385934e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 29 | 9.791469e-02 | 6.318948e-03 | -2.799312e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 30 | 9.768050e-02 | 6.143337e-03 | -2.363663e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 31 | 9.760106e-02 | 5.942002e-03 | -2.671921e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 32 | 9.730915e-02 | 5.782398e-03 | -2.321333e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 33 | 9.730913e-02 | 5.597963e-03 | -2.595965e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 34 | 9.697056e-02 | 5.453019e-03 | -2.285117e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 35 | 9.683607e-02 | 5.353377e-03 | -2.555133e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 36 | 9.675577e-02 | 5.305874e-03 | -1.971556e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 37 | 9.672989e-02 | 5.207189e-03 | -2.390748e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 38 | 9.661435e-02 | 5.161560e-03 | -2.157480e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 39 | 9.660471e-02 | 5.066649e-03 | -2.410908e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 40 | 9.647368e-02 | 5.024497e-03 | -2.157406e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 41 | 9.646948e-02 | 4.931790e-03 | -2.298747e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 42 | 9.635292e-02 | 4.894138e-03 | -2.142289e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 43 | 9.634992e-02 | 4.802936e-03 | -2.363250e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 44 | 9.622406e-02 | 4.768737e-03 | -2.129481e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 45 | 9.622113e-02 | 4.679030e-03 | -2.255260e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 46 | 9.611359e-02 | 4.649370e-03 | -2.107708e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 47 | 9.611278e-02 | 4.560747e-03 | -2.347900e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| 48 | 9.599035e-02 | 4.534010e-03 | -2.096253e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 49 | 9.598961e-02 | 4.446845e-03 | -2.204943e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 50 | 9.589065e-02 | 4.424659e-03 | -2.072458e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 51 | 9.578353e-02 | 4.362751e-03 | -2.327989e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 52 | 9.578241e-02 | 4.277798e-03 | -1.106687e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 53 | 9.571988e-02 | 4.207116e-03 | -1.570237e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 54 | 9.565963e-02 | 4.164134e-03 | -1.361946e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 55 | 9.561860e-02 | 4.096108e-03 | -1.539450e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 56 | 9.554317e-02 | 4.055233e-03 | -1.356717e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 57 | 9.551640e-02 | 3.989660e-03 | -1.488761e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 58 | 9.543554e-02 | 3.950816e-03 | -1.350170e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 59 | 9.542186e-02 | 3.888307e-03 | -1.496733e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 60 | 9.532757e-02 | 3.851449e-03 | -1.341960e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 61 | 9.532676e-02 | 3.791516e-03 | -1.445926e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 62 | 9.522770e-02 | 3.757061e-03 | -1.327693e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 63 | 9.518073e-02 | 3.716946e-03 | -1.387120e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 64 | 9.515613e-02 | 3.715417e-03 | -1.049359e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 65 | 9.513034e-02 | 3.672207e-03 | -1.065885e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 66 | 9.512952e-02 | 3.648855e-03 | -9.034272e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 67 | 9.512016e-02 | 3.529973e-03 | -1.157500e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 68 | 9.499093e-02 | 3.460108e-03 | -1.192748e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 69 | 9.496844e-02 | 3.360170e-03 | -1.386423e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 70 | 9.479250e-02 | 3.299151e-03 | -1.184281e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
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| 622 | 9.158234e-02 | 9.509342e-04 | -3.710719e-03 | 7.812500e-03 | 3.500154e |
| -01 | 1 | | | | |
| 623 | 9.158129e-02 | 8.640812e-04 | -3.979501e-03 | 7.812500e-03 | 3.667004e |
| -01 | 1 | | | | |
| 624 | 9.158031e-02 | 9.488695e-04 | -3.699389e-03 | 7.812500e-03 | 3.495533e |
| -01 | 1 | | | | |
| 625 | 9.157926e-02 | 8.618066e-04 | -3.966847e-03 | 7.812500e-03 | 3.663020e |
| -01 | 1 | | | | |
| 626 | 9.157829e-02 | 9.468167e-04 | -3.687436e-03 | 7.812500e-03 | 3.490929e |
| -01 | 1 | | | | |
| 627 | 9.157725e-02 | 8.595434e-04 | -3.953446e-03 | 7.812500e-03 | 3.659056e |
| -01 | 1 | | | | |
| 628 | 9.157629e-02 | 9.447760e-04 | -3.674745e-03 | 7.812500e-03 | 3.486342e |
| -01 | 1 | | | | |
| 629 | 9.157525e-02 | 8.572918e-04 | -3.939152e-03 | 7.812500e-03 | 3.655111e |
| -01 | 1 | | | | |
| 630 | 9.157430e-02 | 9.427471e-04 | -3.661165e-03 | 7.812500e-03 | 3.481773e |
| -01 | 1 | | | | |
| 631 | 9.157326e-02 | 8.550514e-04 | -3.923779e-03 | 7.812500e-03 | 3.651184e |
| -01 | 1 | | | | |
| 632 | 9.157232e-02 | 9.407302e-04 | -3.646502e-03 | 7.812500e-03 | 3.477220e |
| -01 | 1 | | | | |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| 633 | 9.157128e-02 | 8.528221e-04 | -3.907080e-03 | 7.812500e-03 | 3.647276e |
| -01 | 1 | | | | |
| 634 | 9.157036e-02 | 9.387251e-04 | -3.630498e-03 | 7.812500e-03 | 3.472684e |
| -01 | 1 | | | | |
| 635 | 9.156931e-02 | 8.506039e-04 | -3.888723e-03 | 7.812500e-03 | 3.643387e |
| -01 | 1 | | | | |
| 636 | 9.156840e-02 | 9.367319e-04 | -3.612800e-03 | 7.812500e-03 | 3.468165e |
| -01 | 1 | | | | |
| 637 | 9.156735e-02 | 8.483964e-04 | -3.868252e-03 | 7.812500e-03 | 3.639517e |
| -01 | 1 | | | | |
| 638 | 9.156645e-02 | 9.347505e-04 | -3.592915e-03 | 7.812500e-03 | 3.463662e |
| -01 | 1 | | | | |
| 639 | 9.156539e-02 | 8.461995e-04 | -3.845015e-03 | 7.812500e-03 | 3.635666e |
| -01 | 1 | | | | |
| 640 | 9.156451e-02 | 9.327810e-04 | -3.570128e-03 | 7.812500e-03 | 3.459174e |
| -01 | 1 | | | | |
| 641 | 9.156343e-02 | 8.440128e-04 | -3.818047e-03 | 7.812500e-03 | 3.631834e |
| -01 | 1 | | | | |
| 642 | 9.156256e-02 | 9.308233e-04 | -3.543357e-03 | 7.812500e-03 | 3.454702e |
| -01 | 1 | | | | |
| 643 | 9.156147e-02 | 8.418359e-04 | -3.785855e-03 | 7.812500e-03 | 3.628020e |
| -01 | 1 | | | | |
| 644 | 9.156061e-02 | 9.288774e-04 | -3.510881e-03 | 7.812500e-03 | 3.450244e |
| -01 | 1 | | | | |
| 645 | 9.155949e-02 | 8.396680e-04 | -3.745991e-03 | 7.812500e-03 | 3.624226e |
| -01 | 1 | | | | |
| 646 | 9.155863e-02 | 9.269430e-04 | -3.469789e-03 | 7.812500e-03 | 3.445799e |
| -01 | 1 | | | | |
| 647 | 9.155747e-02 | 8.375077e-04 | -3.694150e-03 | 7.812500e-03 | 3.620450e |
| -01 | 1 | | | | |
| 648 | 9.155660e-02 | 9.250189e-04 | -3.414726e-03 | 7.812500e-03 | 3.441363e |
| -01 | 1 | | | | |
| 649 | 9.155538e-02 | 8.353521e-04 | -3.622000e-03 | 7.812500e-03 | 3.616691e |
| -01 | 1 | | | | |
| 650 | 9.155448e-02 | 9.231016e-04 | -3.334700e-03 | 7.812500e-03 | 3.436931e |
| -01 | 1 | | | | |
| 651 | 9.155313e-02 | 8.331938e-04 | -3.511197e-03 | 7.812500e-03 | 3.612941e |
| -01 | 1 | | | | |
| 652 | 9.155212e-02 | 9.211780e-04 | -3.203349e-03 | 7.812500e-03 | 3.432489e |
| -01 | 1 | | | | |
| 653 | 9.155048e-02 | 8.310088e-04 | -3.313013e-03 | 7.812500e-03 | 3.609174e |
| -01 | 1 | | | | |
| 654 | 9.154911e-02 | 9.191836e-04 | -2.940749e-03 | 7.812500e-03 | 3.427985e |
| -01 | 1 | | | | |
| 655 | 9.154659e-02 | 8.286678e-04 | -2.854891e-03 | 7.812500e-03 | 3.605265e |
| -01 | 1 | | | | |
| 656 | 9.154343e-02 | 9.163953e-04 | -2.200569e-03 | 7.812500e-03 | 3.423153e |
| -01 | 1 | | | | |
| 657 | 9.153710e-02 | 8.172138e-04 | -1.314414e-03 | 7.812500e-03 | 3.599793e |
| -01 | 1 | | | | |
| 658 | 9.140290e-02 | 1.101697e-03 | -4.337430e-04 | 5.000000e-01 | 3.399413e |
| -01 | 2 | | | | |
| 659 | 9.139515e-02 | 1.049167e-03 | -2.489609e-03 | 7.812500e-03 | 3.947000e |
| -01 | 1 | | | | |
| 660 | 9.139100e-02 | 1.029284e-03 | -5.476524e-04 | 1.562500e-02 | 3.851753e |
| -01 | 1 | | | | |
| 661 | 9.138173e-02 | 6.537445e-04 | -1.585354e-04 | 5.000000e-01 | 3.815080e |
| -01 | 2 | | | | |
| 662 | 9.136285e-02 | 6.489884e-04 | -2.353183e-03 | 1.562500e-02 | 3.040466e |
| -01 | 1 | | | | |
| 663 | 9.135827e-02 | 6.413729e-04 | -1.715515e-03 | 7.812500e-03 | 3.029386e |
| -01 | 1 | | | | |
| 664 | 9.135421e-02 | 5.883905e-04 | -6.030191e-04 | 7.812500e-03 | 3.011559e |
| -01 | 1 | | | | |
| 665 | 9.134237e-02 | 5.923560e-04 | -2.759042e-05 | 1.000000e+00 | 2.884489e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 2 | | | | |
| 666 | 9.134186e-02 | 5.415524e-04 | -1.462831e-05 | 5.000000e-01 | 2.894193e |
| -01 | 1 | | | | |
| 667 | 9.134019e-02 | 2.884531e-04 | -1.426048e-05 | 2.500000e-01 | 2.767301e |
| -01 | 2 | | | | |
| 668 | 9.133932e-02 | 3.082483e-04 | -2.825929e-06 | 1.000000e+00 | 2.019639e |
| -01 | 3 | | | | |
| 669 | 9.133892e-02 | 1.471463e-04 | -1.587975e-06 | 1.000000e+00 | 2.087788e |
| -01 | 5 | | | | |
| 670 | 9.133875e-02 | 1.140412e-04 | -5.056313e-07 | 1.000000e+00 | 1.442483e |
| -01 | 2 | | | | |
| 671 | 9.133865e-02 | 2.304017e-05 | -1.701224e-07 | 1.000000e+00 | 1.269892e |
| -01 | 2 | | | | |
| 672 | 9.133863e-02 | 4.479863e-06 | -3.249726e-08 | 1.000000e+00 | 5.707934e |
| -02 | 4 | | | | |
| 673 | 9.133863e-02 | 3.596361e-07 | -2.461437e-09 | 1.000000e+00 | 2.516914e |
| -02 | 6 | | | | |
| 674 | 9.133863e-02 | 2.972781e-09 | -1.368380e-11 | 1.000000e+00 | 7.131284e |
| -03 | 5 | | | | |

Norm of the gradient less than tolerance

Inexact Newton CG converged in 674 nonlinear iterations and 740 linear iterations.

Final norm of the gradient 2.9727808868962924e-09

Value of the cost functional 0.09133863184172136

Using Symbolic Differentiation to compute the gradient

Using Symbolic Differentiation to compute the Hessian

| It | Energy | $ g $ | (g,du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| -cg | cg_it | | | | |
| 0 | 1.089776e-01 | 3.874628e-03 | -3.018023e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 5.048789e-02 | 1.800680e-03 | -1.220077e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 2 | 4.939529e-02 | 2.168426e-03 | -1.910988e-02 | 5.000000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 3 | 4.858647e-02 | 1.844412e-03 | -4.268235e-02 | 2.500000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 4 | 4.767113e-02 | 1.874381e-03 | -3.136532e-02 | 2.500000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 5 | 4.555652e-02 | 1.412764e-03 | -3.459613e-02 | 1.250000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 6 | 4.515904e-02 | 1.346467e-03 | -1.218865e-02 | 1.250000e-01 | 4.469623e |
| -01 | 1 | | | | |
| 7 | 4.511058e-02 | 1.181620e-03 | -1.148755e-02 | 1.250000e-01 | 4.363489e |
| -01 | 1 | | | | |
| 8 | 4.495943e-02 | 1.163088e-03 | -1.059365e-02 | 1.250000e-01 | 4.087662e |
| -01 | 1 | | | | |
| 9 | 4.451923e-02 | 9.417098e-04 | -1.207039e-02 | 6.250000e-02 | 4.055482e |
| -01 | 1 | | | | |
| 10 | 4.441426e-02 | 9.179076e-04 | -3.818824e-03 | 6.250000e-02 | 3.649175e |
| -01 | 1 | | | | |
| 11 | 4.437791e-02 | 8.154873e-04 | -3.196915e-03 | 6.250000e-02 | 3.602762e |
| -01 | 1 | | | | |
| 12 | 4.433419e-02 | 8.118623e-04 | -2.578399e-03 | 6.250000e-02 | 3.395820e |
| -01 | 1 | | | | |
| 13 | 4.431751e-02 | 7.316510e-04 | -3.114710e-03 | 6.250000e-02 | 3.388264e |
| -01 | 1 | | | | |
| 14 | 4.426650e-02 | 7.345621e-04 | -2.546472e-03 | 6.250000e-02 | 3.216534e |
| -01 | 1 | | | | |
| 15 | 4.425712e-02 | 6.697176e-04 | -2.805952e-03 | 6.250000e-02 | 3.222926e |
| -01 | 1 | | | | |
| 16 | 4.421780e-02 | 6.756773e-04 | -2.449213e-03 | 6.250000e-02 | 3.077386e |
| -01 | 1 | | | | |
| 17 | 4.420857e-02 | 6.185647e-04 | -2.705425e-03 | 6.250000e-02 | 3.091048e |
| -01 | 1 | | | | |
| 18 | 4.416891e-02 | 6.234436e-04 | -2.287989e-03 | 6.250000e-02 | 2.957527e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 1 | | | | |
| 19 | 4.416615e-02 | 5.753455e-04 | -2.421057e-03 | 6.250000e-02 | 2.969167e |
| -01 | 1 | | | | |
| 20 | 4.413841e-02 | 5.816050e-04 | -2.277222e-03 | 6.250000e-02 | 2.852334e |
| -01 | 1 | | | | |
| 21 | 4.413207e-02 | 5.360710e-04 | -2.458000e-03 | 6.250000e-02 | 2.867809e |
| -01 | 1 | | | | |
| 22 | 4.410218e-02 | 5.460162e-04 | -2.118071e-03 | 6.250000e-02 | 2.753260e |
| -01 | 1 | | | | |
| 23 | 4.410210e-02 | 5.033210e-04 | -2.247445e-03 | 6.250000e-02 | 2.778682e |
| -01 | 1 | | | | |
| 24 | 4.408099e-02 | 5.202326e-04 | -2.095078e-03 | 6.250000e-02 | 2.667833e |
| -01 | 1 | | | | |
| 25 | 4.407948e-02 | 4.767801e-04 | -2.321917e-03 | 6.250000e-02 | 2.712282e |
| -01 | 1 | | | | |
| 26 | 4.405590e-02 | 4.968433e-04 | -2.027070e-03 | 6.250000e-02 | 2.596541e |
| -01 | 1 | | | | |
| 27 | 4.401102e-02 | 4.118349e-04 | -2.186197e-03 | 3.125000e-02 | 2.650610e |
| -01 | 1 | | | | |
| 28 | 4.400482e-02 | 4.271765e-04 | -4.693552e-04 | 6.250000e-02 | 2.413224e |
| -01 | 1 | | | | |
| 29 | 4.400409e-02 | 3.659178e-04 | -7.837621e-04 | 6.250000e-02 | 2.457762e |
| -01 | 1 | | | | |
| 30 | 4.398842e-02 | 3.819019e-04 | -6.274146e-04 | 6.250000e-02 | 2.274720e |
| -01 | 1 | | | | |
| 31 | 4.397761e-02 | 3.405464e-04 | -7.866718e-04 | 3.125000e-02 | 2.323871e |
| -01 | 1 | | | | |
| 32 | 4.397642e-02 | 3.576876e-04 | -3.542265e-04 | 6.250000e-02 | 2.194443e |
| -01 | 1 | | | | |
| 33 | 4.396610e-02 | 3.166088e-04 | -7.023582e-04 | 3.125000e-02 | 2.248993e |
| -01 | 1 | | | | |
| 34 | 4.396523e-02 | 3.345377e-04 | -3.078962e-04 | 6.250000e-02 | 2.115912e |
| -01 | 1 | | | | |
| 35 | 4.395640e-02 | 2.979479e-04 | -6.301506e-04 | 3.125000e-02 | 2.174997e |
| -01 | 1 | | | | |
| 36 | 4.395116e-02 | 3.140278e-04 | -2.888665e-04 | 3.125000e-02 | 2.052609e |
| -01 | 1 | | | | |
| 37 | 4.390555e-02 | 2.611764e-04 | -1.827909e-04 | 1.000000e+00 | 2.107270e |
| -01 | 2 | | | | |
| 38 | 4.389490e-02 | 2.435589e-04 | -3.610809e-04 | 1.250000e-01 | 1.921777e |
| -01 | 1 | | | | |
| 39 | 4.388161e-02 | 2.072781e-04 | -5.105584e-04 | 6.250000e-02 | 1.855829e |
| -01 | 1 | | | | |
| 40 | 4.388137e-02 | 2.155994e-04 | -2.578907e-04 | 6.250000e-02 | 1.712036e |
| -01 | 1 | | | | |
| 41 | 4.387571e-02 | 1.881077e-04 | -3.229633e-04 | 3.125000e-02 | 1.746063e |
| -01 | 1 | | | | |
| 42 | 4.387384e-02 | 1.820359e-04 | -8.997583e-05 | 3.125000e-02 | 1.630945e |
| -01 | 1 | | | | |
| 43 | 4.387380e-02 | 1.266763e-04 | -1.308644e-05 | 1.000000e+00 | 1.604407e |
| -01 | 2 | | | | |
| 44 | 4.387237e-02 | 1.250713e-04 | -8.771042e-05 | 6.250000e-02 | 1.338393e |
| -01 | 1 | | | | |
| 45 | 4.387010e-02 | 1.035714e-04 | -1.176791e-04 | 3.125000e-02 | 1.329887e |
| -01 | 1 | | | | |
| 46 | 4.387010e-02 | 1.066529e-04 | -1.789922e-05 | 6.250000e-02 | 1.210197e |
| -01 | 1 | | | | |
| 47 | 4.386971e-02 | 9.248139e-05 | -3.044354e-05 | 3.125000e-02 | 1.228068e |
| -01 | 1 | | | | |
| 48 | 4.386950e-02 | 8.643461e-05 | -7.934566e-06 | 3.125000e-02 | 1.143571e |
| -01 | 1 | | | | |
| 49 | 4.386912e-02 | 5.209962e-05 | -9.197951e-07 | 1.000000e+00 | 1.105554e |
| -01 | 3 | | | | |
| 50 | 4.386906e-02 | 3.340953e-05 | -2.436236e-07 | 5.000000e-01 | 8.583282e |
| -02 | 2 | | | | |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| 51 | 4.386903e-02 | 2.053236e-05 | -7.535574e-08 | 1.000000e+00 | 6.873395e |
| -02 | 3 | | | | |
| 52 | 4.386903e-02 | 1.655434e-05 | -2.934179e-08 | 1.000000e+00 | 5.388347e |
| -02 | 3 | | | | |
| 53 | 4.386902e-02 | 4.067460e-06 | -9.069209e-09 | 1.000000e+00 | 4.838292e |
| -02 | 3 | | | | |
| 54 | 4.386902e-02 | 1.248916e-07 | -6.235389e-10 | 1.000000e+00 | 2.398268e |
| -02 | 3 | | | | |
| 55 | 4.386902e-02 | 1.047060e-09 | -1.906018e-12 | 1.000000e+00 | 4.202452e |
| -03 | 6 | | | | |

Norm of the gradient less than tolerance

Inexact Newton CG converged in 55 nonlinear iterations and 814 linear iterations.

Final norm of the gradient 1.047059786750277e-09

Value of the cost functional 0.04386902184261997

Using Symbolic Differentiation to compute the gradient

Using Symbolic Differentiation to compute the Hessian

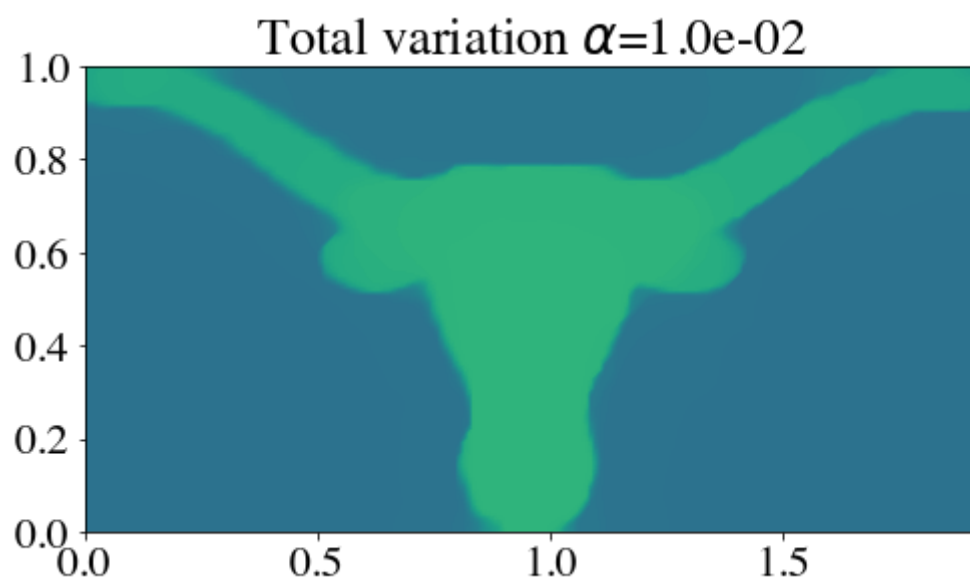
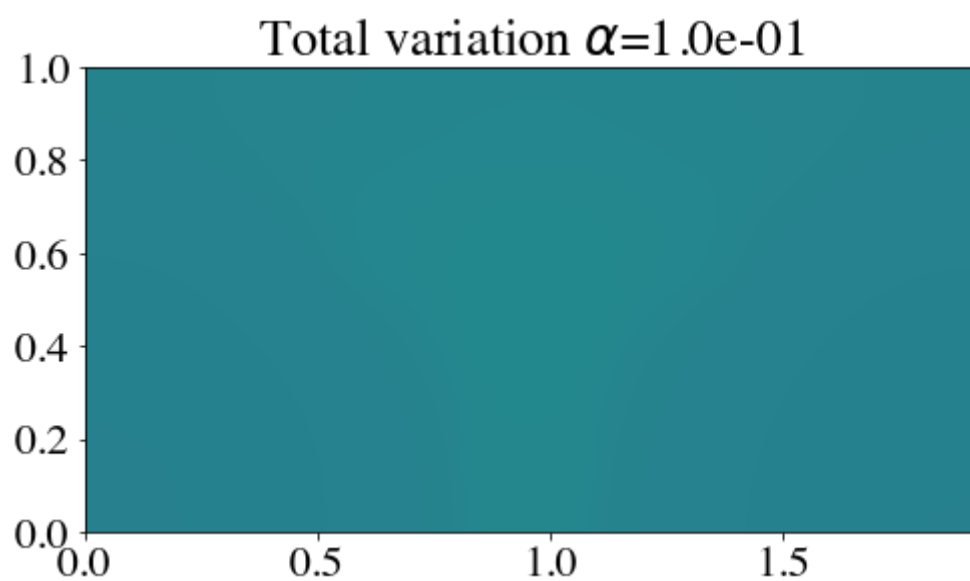
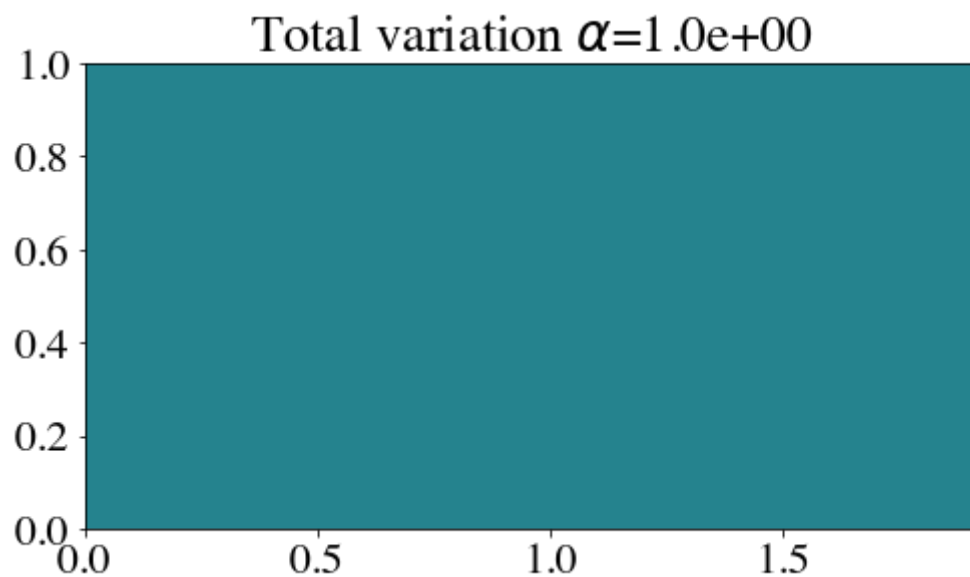
| It | Energy | $ g $ | (g,du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| _cg | cg_it | | | | |
| 0 | 5.801144e-02 | 2.607780e-03 | -4.139223e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 1.852856e-02 | 9.232149e-04 | -7.249792e-02 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 2 | 9.989357e-03 | 1.931651e-04 | -1.611438e-02 | 1.000000e+00 | 3.613162e |
| -01 | 1 | | | | |
| 3 | 9.568455e-03 | 3.700504e-05 | -8.387331e-04 | 1.000000e+00 | 1.652724e |
| -01 | 1 | | | | |
| 4 | 9.561845e-03 | 2.487921e-05 | -2.398831e-05 | 1.000000e+00 | 7.233800e |
| -02 | 1 | | | | |
| 5 | 9.558711e-03 | 1.006515e-05 | -1.047903e-05 | 5.000000e-01 | 5.931361e |
| -02 | 1 | | | | |
| 6 | 9.558433e-03 | 9.493954e-06 | -1.292771e-06 | 5.000000e-01 | 3.772648e |
| -02 | 2 | | | | |
| 7 | 9.558335e-03 | 4.978864e-06 | -7.832254e-07 | 2.500000e-01 | 3.664035e |
| -02 | 2 | | | | |
| 8 | 9.558311e-03 | 4.527821e-06 | -1.834767e-07 | 2.500000e-01 | 2.653391e |
| -02 | 2 | | | | |
| 9 | 9.558304e-03 | 2.858944e-06 | -9.244526e-08 | 5.000000e-01 | 2.530351e |
| -02 | 2 | | | | |
| 10 | 9.558297e-03 | 3.418749e-06 | -1.021540e-07 | 2.500000e-01 | 2.010661e |
| -02 | 2 | | | | |
| 11 | 9.558294e-03 | 2.119347e-06 | -8.039450e-08 | 2.500000e-01 | 2.198719e |
| -02 | 2 | | | | |
| 12 | 9.558293e-03 | 2.180949e-06 | -5.828613e-08 | 2.500000e-01 | 1.731160e |
| -02 | 2 | | | | |
| 13 | 9.558287e-03 | 1.320424e-06 | -6.995181e-08 | 1.250000e-01 | 1.756139e |
| -02 | 2 | | | | |
| 14 | 9.558286e-03 | 1.077264e-06 | -3.021847e-09 | 1.000000e+00 | 1.366447e |
| -02 | 2 | | | | |
| 15 | 9.558286e-03 | 4.549434e-07 | -7.367396e-10 | 1.000000e+00 | 1.234233e |
| -02 | 2 | | | | |
| 16 | 9.558286e-03 | 5.697188e-08 | -1.036759e-10 | 1.000000e+00 | 8.020747e |
| -03 | 2 | | | | |
| 17 | 9.558286e-03 | 6.839569e-10 | -1.525278e-12 | 1.000000e+00 | 2.838353e |
| -03 | 2 | | | | |

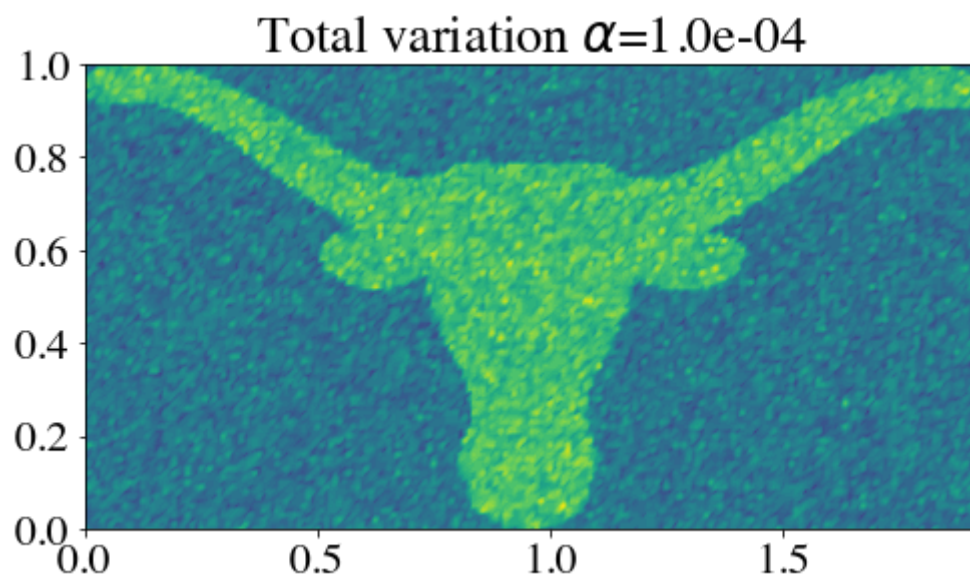
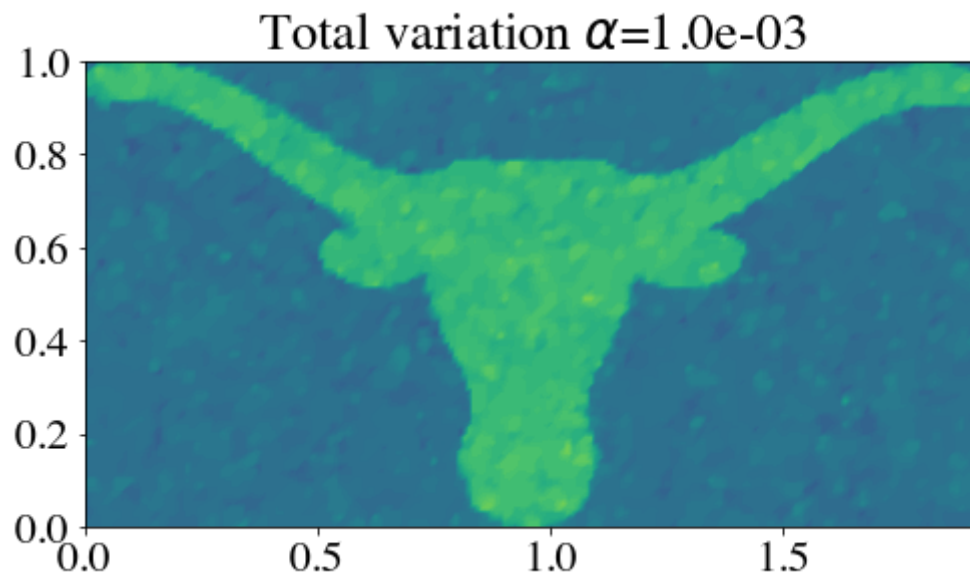
Norm of the gradient less than tolerance

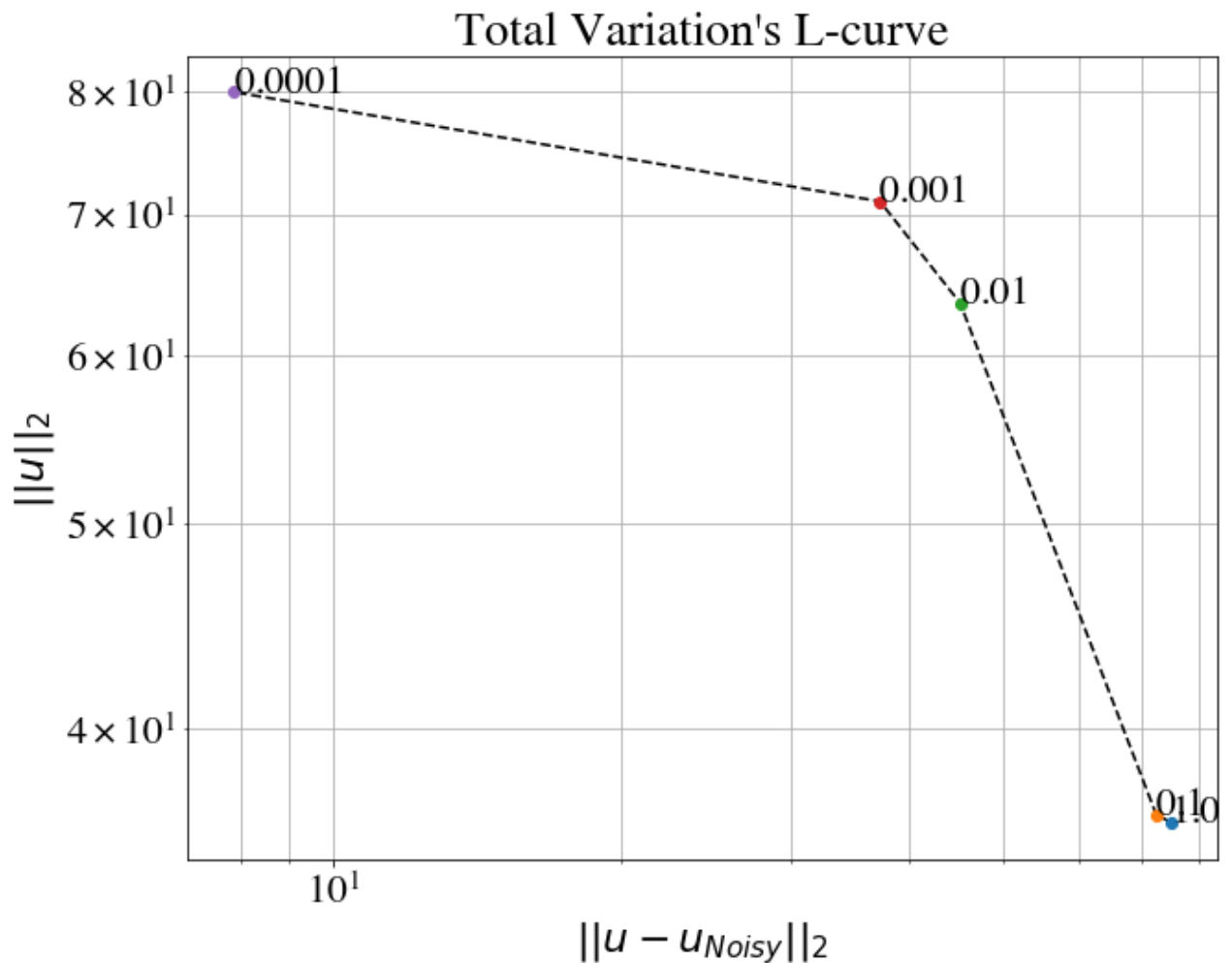
Inexact Newton CG converged in 17 nonlinear iterations and 844 linear iterations.

Final norm of the gradient 6.839569109241016e-10

Value of the cost functional 0.009558285870311068







It turns out that the optimal α for this case turns out to be 10^{-2} .

Effect of changing δ on the Newton iterations for convergence

```
In [9]: # TN regularization
alpha = 1e-2
deltas = np.logspace(1, -4, 6)
num_iters = []

for delta in deltas:
    u_tv = Function(V)
    F_tv = TV_functions(alpha, delta, u_tv)
    solver.solve(F_tv, u_tv)
    num_iters.append(solver.it)

# plot iteration dependence on the delta
fig, ax = plt.subplots(figsize=(10, 8))
ax.semilogx(deltas, num_iters, 'ro')
ax.semilogx(deltas, num_iters, 'k--')
plt.grid(True, which="both")
plt.xlabel(r'$\delta$')
plt.ylabel(r'Newton iterations')
```

```
plt.title("Convergence dependence on  $\delta$ ")
plt.savefig("Q4_TV_Newton.pdf")
```

Using Symbolic Differentiation to compute the gradient
Using Symbolic Differentiation to compute the Hessian

| It | Energy | $ g $ | (g,du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| -cg | cg_it | | | | |
| 0 | 1.533045e-01 | 2.332531e-03 | -3.647865e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 1.425427e-01 | 1.336590e-03 | -1.941908e-02 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 2 | 1.422797e-01 | 2.811544e-03 | -3.021029e-03 | 1.000000e+00 | 4.347456e |
| -01 | 1 | | | | |
| 3 | 1.417032e-01 | 1.212582e-03 | -7.204427e-03 | 5.000000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 4 | 1.413057e-01 | 6.068462e-04 | -1.261276e-03 | 5.000000e-01 | 4.140871e |
| -01 | 1 | | | | |
| 5 | 1.411937e-01 | 6.557354e-04 | -3.335139e-04 | 1.000000e+00 | 2.929378e |
| -01 | 1 | | | | |
| 6 | 1.411571e-01 | 3.287146e-04 | -4.751881e-04 | 5.000000e-01 | 3.045092e |
| -01 | 1 | | | | |
| 7 | 1.411121e-01 | 1.115303e-04 | -1.338616e-04 | 5.000000e-01 | 2.155984e |
| -01 | 1 | | | | |
| 8 | 1.411078e-01 | 3.262004e-05 | -8.980724e-06 | 1.000000e+00 | 1.255835e |
| -01 | 1 | | | | |
| 9 | 1.411075e-01 | 2.779923e-06 | -5.650702e-07 | 1.000000e+00 | 6.791698e |
| -02 | 2 | | | | |
| 10 | 1.411075e-01 | 5.812670e-08 | -6.551927e-09 | 1.000000e+00 | 1.982679e |
| -02 | 2 | | | | |
| 11 | 1.411075e-01 | 8.555076e-11 | -2.532028e-12 | 1.000000e+00 | 2.866975e |
| -03 | 3 | | | | |

Norm of the gradient less than tolerance

Inexact Newton CG converged in 11 nonlinear iterations and 860 linear iterations.

Final norm of the gradient 8.555075621279043e-11

Value of the cost functional 0.14110753459039593

Using Symbolic Differentiation to compute the gradient

Using Symbolic Differentiation to compute the Hessian

| It | Energy | $ g $ | (g,du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| -cg | cg_it | | | | |
| 0 | 1.389757e-01 | 3.490334e-03 | -3.018023e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 1.105192e-01 | 4.699087e-03 | -5.308884e-02 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 2 | 1.077631e-01 | 4.322282e-03 | -1.231011e-02 | 5.000000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 3 | 1.070798e-01 | 3.372782e-03 | -2.261689e-02 | 1.250000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 4 | 1.067137e-01 | 2.872221e-03 | -1.021176e-02 | 1.250000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 5 | 1.063885e-01 | 2.755033e-03 | -1.201316e-02 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 6 | 1.062278e-01 | 2.542323e-03 | -7.884174e-03 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 7 | 1.061111e-01 | 2.440146e-03 | -6.065733e-03 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 8 | 1.060416e-01 | 2.122479e-03 | -4.825704e-03 | 1.250000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 9 | 1.059568e-01 | 2.078146e-03 | -8.071225e-03 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 10 | 1.059179e-01 | 1.908055e-03 | -9.059269e-03 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 11 | 1.058872e-01 | 1.873607e-03 | -8.546278e-03 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 12 | 1.058630e-01 | 1.714506e-03 | -1.052519e-02 | 6.250000e-02 | 5.000000e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 1 | | | | |
| 13 | 1.058005e-01 | 1.709002e-03 | -9.507814e-03 | 6.250000e-02 | 4.923860e |
| -01 | 1 | | | | |
| 14 | 1.057690e-01 | 1.561498e-03 | -1.006997e-02 | 6.250000e-02 | 4.915948e |
| -01 | 1 | | | | |
| 15 | 1.057468e-01 | 1.570720e-03 | -9.595861e-03 | 6.250000e-02 | 4.699014e |
| -01 | 1 | | | | |
| 16 | 1.057138e-01 | 1.432440e-03 | -1.050625e-02 | 6.250000e-02 | 4.712871e |
| -01 | 1 | | | | |
| 17 | 1.056867e-01 | 1.449863e-03 | -9.910369e-03 | 6.250000e-02 | 4.500640e |
| -01 | 1 | | | | |
| 18 | 1.056748e-01 | 1.322937e-03 | -1.080390e-02 | 6.250000e-02 | 4.527929e |
| -01 | 1 | | | | |
| 19 | 1.056314e-01 | 1.351334e-03 | -1.019024e-02 | 6.250000e-02 | 4.325195e |
| -01 | 1 | | | | |
| 20 | 1.056271e-01 | 1.229509e-03 | -1.080435e-02 | 6.250000e-02 | 4.371369e |
| -01 | 1 | | | | |
| 21 | 1.055886e-01 | 1.269175e-03 | -1.020732e-02 | 6.250000e-02 | 4.169672e |
| -01 | 1 | | | | |
| 22 | 1.055886e-01 | 1.151478e-03 | -1.083391e-02 | 6.250000e-02 | 4.236399e |
| -01 | 1 | | | | |
| 23 | 1.055558e-01 | 1.201574e-03 | -1.027601e-02 | 6.250000e-02 | 4.035190e |
| -01 | 1 | | | | |
| 24 | 1.052714e-01 | 8.796388e-04 | -1.093932e-02 | 3.125000e-02 | 4.122031e |
| -01 | 1 | | | | |
| 25 | 1.051042e-01 | 7.117376e-04 | -3.719898e-04 | 1.000000e+00 | 3.526861e |
| -01 | 1 | | | | |
| 26 | 1.050907e-01 | 5.681116e-04 | -2.115000e-04 | 2.500000e-01 | 3.172459e |
| -01 | 1 | | | | |
| 27 | 1.050813e-01 | 4.715368e-04 | -9.487645e-05 | 2.500000e-01 | 2.834346e |
| -01 | 1 | | | | |
| 28 | 1.050755e-01 | 3.650571e-04 | -2.642076e-05 | 1.000000e+00 | 2.582224e |
| -01 | 2 | | | | |
| 29 | 1.050729e-01 | 2.506485e-04 | -1.626934e-05 | 5.000000e-01 | 2.272043e |
| -01 | 1 | | | | |
| 30 | 1.050710e-01 | 6.030688e-05 | -4.054333e-06 | 1.000000e+00 | 1.882646e |
| -01 | 1 | | | | |
| 31 | 1.050706e-01 | 1.427178e-05 | -6.228479e-07 | 1.000000e+00 | 9.234630e |
| -02 | 2 | | | | |
| 32 | 1.050705e-01 | 1.992382e-06 | -1.042518e-07 | 1.000000e+00 | 4.492366e |
| -02 | 2 | | | | |
| 33 | 1.050705e-01 | 7.681963e-08 | -3.463787e-09 | 1.000000e+00 | 1.678504e |
| -02 | 2 | | | | |
| 34 | 1.050705e-01 | 2.387971e-10 | -4.262611e-12 | 1.000000e+00 | 3.295886e |
| -03 | 4 | | | | |

Norm of the gradient less than tolerance

Inexact Newton CG converged in 34 nonlinear iterations and 902 linear iterations.

Final norm of the gradient 2.3879712411921504e-10

Value of the cost functional 0.10507054222875067

Using Symbolic Differentiation to compute the gradient

Using Symbolic Differentiation to compute the Hessian

| It | Energy | $ g $ | (g, du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| -cg | cg_it | | | | |
| 0 | 1.591207e-01 | 4.498592e-03 | -2.346220e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 1.085547e-01 | 8.357454e-03 | -9.448071e-02 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 2 | 1.067931e-01 | 1.007537e-02 | -3.583086e-02 | 5.000000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 3 | 1.022442e-01 | 8.635859e-03 | -2.068784e-01 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 4 | 1.012997e-01 | 7.759356e-03 | -9.088355e-02 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 5 | 1.012414e-01 | 7.142384e-03 | -9.065475e-02 | 6.250000e-02 | 5.000000e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 1 | | | | |
| 6 | 1.005975e-01 | 6.734891e-03 | -8.486957e-02 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 7 | 1.005522e-01 | 6.288373e-03 | -8.935379e-02 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 8 | 1.000124e-01 | 6.006740e-03 | -8.526977e-02 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 9 | 1.000020e-01 | 5.595533e-03 | -8.839462e-02 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 10 | 9.938757e-02 | 5.401256e-03 | -8.098195e-02 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 11 | 9.758918e-02 | 5.091160e-03 | -8.840971e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 12 | 9.738392e-02 | 4.911143e-03 | -2.860025e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 13 | 9.734678e-02 | 4.700393e-03 | -2.848877e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 14 | 9.721631e-02 | 4.595431e-03 | -2.668313e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 15 | 9.719798e-02 | 4.427530e-03 | -3.007397e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 16 | 9.704119e-02 | 4.341932e-03 | -2.774639e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 17 | 9.669525e-02 | 4.179511e-03 | -3.018777e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 18 | 9.664262e-02 | 3.653520e-03 | -5.695907e-03 | 1.250000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 19 | 9.657346e-02 | 3.411113e-03 | -1.517477e-02 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 20 | 9.637296e-02 | 3.258737e-03 | -1.278686e-02 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 21 | 9.613537e-02 | 3.116685e-03 | -1.671320e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 22 | 9.601651e-02 | 3.104708e-03 | -1.142498e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 23 | 9.600348e-02 | 2.726598e-03 | -4.243300e-03 | 1.250000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 24 | 9.597416e-02 | 2.628679e-03 | -9.848063e-03 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 25 | 9.573950e-02 | 2.515458e-03 | -1.371561e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 26 | 9.565394e-02 | 2.534027e-03 | -9.419671e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 27 | 9.564217e-02 | 2.304349e-03 | -3.972491e-03 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 28 | 9.555428e-02 | 2.273149e-03 | -6.752206e-03 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 29 | 9.549929e-02 | 2.203808e-03 | -7.098037e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 30 | 9.547635e-02 | 2.204013e-03 | -4.206364e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 31 | 9.546087e-02 | 2.102018e-03 | -3.711782e-03 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 32 | 9.545618e-02 | 2.078495e-03 | -4.825218e-03 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 33 | 9.541968e-02 | 1.985896e-03 | -6.260168e-03 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 34 | 9.538254e-02 | 1.968855e-03 | -5.368688e-03 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 35 | 9.537252e-02 | 1.877526e-03 | -6.525334e-03 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 36 | 9.531209e-02 | 1.865759e-03 | -5.576829e-03 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 37 | 9.526121e-02 | 1.800134e-03 | -6.460330e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| 38 | 9.523788e-02 | 1.811506e-03 | -3.267182e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 39 | 9.523154e-02 | 1.414860e-03 | -1.974854e-03 | 2.500000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 40 | 9.503941e-02 | 1.365590e-03 | -4.754362e-03 | 6.250000e-02 | 4.472937e |
| -01 | 1 | | | | |
| 41 | 9.498062e-02 | 1.327276e-03 | -3.426967e-03 | 3.125000e-02 | 4.394366e |
| -01 | 1 | | | | |
| 42 | 9.496770e-02 | 1.297209e-03 | -2.312966e-03 | 3.125000e-02 | 4.332281e |
| -01 | 1 | | | | |
| 43 | 9.495373e-02 | 1.263482e-03 | -2.749578e-03 | 3.125000e-02 | 4.282932e |
| -01 | 1 | | | | |
| 44 | 9.493773e-02 | 1.235872e-03 | -2.662361e-03 | 3.125000e-02 | 4.226887e |
| -01 | 1 | | | | |
| 45 | 9.493499e-02 | 1.205018e-03 | -2.988164e-03 | 3.125000e-02 | 4.180448e |
| -01 | 1 | | | | |
| 46 | 9.491144e-02 | 1.190618e-03 | -2.907046e-03 | 3.125000e-02 | 4.127934e |
| -01 | 1 | | | | |
| 47 | 9.490863e-02 | 1.161027e-03 | -2.982595e-03 | 3.125000e-02 | 4.103197e |
| -01 | 1 | | | | |
| 48 | 9.488593e-02 | 1.149051e-03 | -2.871070e-03 | 3.125000e-02 | 4.051886e |
| -01 | 1 | | | | |
| 49 | 9.488397e-02 | 1.120580e-03 | -2.949610e-03 | 3.125000e-02 | 4.030935e |
| -01 | 1 | | | | |
| 50 | 9.486189e-02 | 1.110576e-03 | -2.836488e-03 | 3.125000e-02 | 3.980683e |
| -01 | 1 | | | | |
| 51 | 9.486074e-02 | 1.083104e-03 | -2.913269e-03 | 3.125000e-02 | 3.962874e |
| -01 | 1 | | | | |
| 52 | 9.483935e-02 | 1.074838e-03 | -2.803005e-03 | 3.125000e-02 | 3.913553e |
| -01 | 1 | | | | |
| 53 | 9.483880e-02 | 1.048242e-03 | -2.877604e-03 | 3.125000e-02 | 3.898591e |
| -01 | 1 | | | | |
| 54 | 9.481820e-02 | 1.041560e-03 | -2.770654e-03 | 3.125000e-02 | 3.850054e |
| -01 | 1 | | | | |
| 55 | 9.481809e-02 | 1.015719e-03 | -2.843747e-03 | 3.125000e-02 | 3.837763e |
| -01 | 1 | | | | |
| 56 | 9.479834e-02 | 1.010503e-03 | -2.739524e-03 | 3.125000e-02 | 3.789858e |
| -01 | 1 | | | | |
| 57 | 9.476590e-02 | 9.876333e-04 | -2.811966e-03 | 1.562500e-02 | 3.780114e |
| -01 | 1 | | | | |
| 58 | 9.461440e-02 | 1.408645e-03 | -8.262501e-04 | 1.000000e+00 | 3.737093e |
| -01 | 2 | | | | |
| 59 | 9.447166e-02 | 1.273986e-03 | -2.926232e-03 | 6.250000e-02 | 4.463102e |
| -01 | 1 | | | | |
| 60 | 9.445867e-02 | 1.270524e-03 | -1.450372e-03 | 1.562500e-02 | 4.244421e |
| -01 | 1 | | | | |
| 61 | 9.445330e-02 | 1.072629e-03 | -1.660720e-04 | 1.250000e-01 | 4.238650e |
| -01 | 1 | | | | |
| 62 | 9.444842e-02 | 1.060883e-03 | -3.730181e-04 | 3.125000e-02 | 3.894582e |
| -01 | 1 | | | | |
| 63 | 9.444442e-02 | 8.035512e-04 | -7.620609e-05 | 2.500000e-01 | 3.873200e |
| -01 | 1 | | | | |
| 64 | 9.444011e-02 | 8.007503e-04 | -3.418426e-04 | 3.125000e-02 | 3.370877e |
| -01 | 1 | | | | |
| 65 | 9.443844e-02 | 6.472831e-04 | -5.426446e-05 | 2.500000e-01 | 3.364997e |
| -01 | 1 | | | | |
| 66 | 9.443841e-02 | 6.496792e-04 | -1.997979e-04 | 6.250000e-02 | 3.025403e |
| -01 | 1 | | | | |
| 67 | 9.443324e-02 | 5.700269e-04 | -2.585817e-04 | 3.125000e-02 | 3.030998e |
| -01 | 1 | | | | |
| 68 | 9.442710e-02 | 3.539227e-04 | -1.446063e-05 | 1.000000e+00 | 2.839120e |
| -01 | 1 | | | | |
| 69 | 9.442617e-02 | 3.132200e-04 | -7.156391e-06 | 5.000000e-01 | 2.237125e |
| -01 | 2 | | | | |
| 70 | 9.442616e-02 | 3.262480e-04 | -2.991531e-06 | 1.000000e+00 | 2.104558e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 2 | | | | |
| 71 | 9.442543e-02 | 1.865838e-04 | -4.041256e-06 | 5.000000e-01 | 2.147880e |
| -01 | 1 | | | | |
| 72 | 9.442521e-02 | 2.016249e-05 | -4.386834e-07 | 1.000000e+00 | 1.624325e |
| -01 | 4 | | | | |
| 73 | 9.442520e-02 | 1.436264e-06 | -1.312415e-08 | 1.000000e+00 | 5.339593e |
| -02 | 4 | | | | |
| 74 | 9.442520e-02 | 1.391765e-08 | -8.694401e-11 | 1.000000e+00 | 1.425126e |
| -02 | 5 | | | | |
| 75 | 9.442520e-02 | 5.300059e-12 | -7.508816e-15 | 1.000000e+00 | 1.402875e |
| -03 | 7 | | | | |

Norm of the gradient less than tolerance

Inexact Newton CG converged in 75 nonlinear iterations and 997 linear iterations.

Final norm of the gradient 5.300058535861484e-12

Value of the cost functional 0.09442520399847093

Using Symbolic Differentiation to compute the gradient

Using Symbolic Differentiation to compute the Hessian

| It | Energy | $ g $ | (g, du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| cg | cg_it | | | | |
| 0 | 1.859864e-01 | 5.212611e-03 | -1.795858e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 1.201357e-01 | 9.879401e-03 | -1.191994e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 2 | 1.152185e-01 | 1.385010e-02 | -6.056340e-02 | 5.000000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 3 | 1.106088e-01 | 1.279555e-02 | -3.785992e-01 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 4 | 1.046458e-01 | 1.151200e-02 | -3.269478e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 5 | 1.042907e-01 | 1.095296e-02 | -1.627935e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 6 | 1.037626e-01 | 1.052778e-02 | -1.580796e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 7 | 1.037016e-01 | 1.017335e-02 | -1.692858e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 8 | 1.032060e-01 | 9.900013e-03 | -1.701277e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 9 | 1.031387e-01 | 9.581754e-03 | -1.787761e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 10 | 1.025821e-01 | 9.332920e-03 | -1.735101e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 11 | 1.005952e-01 | 9.109342e-03 | -1.789125e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 12 | 1.003858e-01 | 8.945201e-03 | -7.318733e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 13 | 1.002530e-01 | 8.758111e-03 | -7.322344e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 14 | 1.000485e-01 | 8.579300e-03 | -6.357488e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 15 | 9.998370e-02 | 8.443755e-03 | -6.860593e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 16 | 9.976087e-02 | 8.313676e-03 | -6.252427e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 17 | 9.970939e-02 | 8.186603e-03 | -6.605956e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 18 | 9.951759e-02 | 8.052822e-03 | -6.181573e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 19 | 9.948068e-02 | 7.932705e-03 | -6.760597e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 20 | 9.926061e-02 | 7.810180e-03 | -6.168150e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 21 | 9.923107e-02 | 7.693883e-03 | -6.512519e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 22 | 9.905247e-02 | 7.579462e-03 | -6.135379e-02 | 1.562500e-02 | 5.000000e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 1 | | | | |
| 23 | 9.903016e-02 | 7.466387e-03 | -6.758938e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 24 | 9.881656e-02 | 7.357650e-03 | -6.132679e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 25 | 9.844974e-02 | 7.238892e-03 | -6.601966e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 26 | 9.844805e-02 | 6.967149e-03 | -1.676249e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 27 | 9.823221e-02 | 6.730192e-03 | -2.494748e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 28 | 9.810046e-02 | 6.536656e-03 | -2.385934e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 29 | 9.791469e-02 | 6.318948e-03 | -2.799312e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 30 | 9.768050e-02 | 6.143337e-03 | -2.363663e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 31 | 9.760106e-02 | 5.942002e-03 | -2.671921e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 32 | 9.730915e-02 | 5.782398e-03 | -2.321333e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 33 | 9.730913e-02 | 5.597963e-03 | -2.595965e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 34 | 9.697056e-02 | 5.453019e-03 | -2.285117e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 35 | 9.683607e-02 | 5.353377e-03 | -2.555133e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 36 | 9.675577e-02 | 5.305874e-03 | -1.971556e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 37 | 9.672989e-02 | 5.207189e-03 | -2.390748e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 38 | 9.661435e-02 | 5.161560e-03 | -2.157480e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 39 | 9.660471e-02 | 5.066649e-03 | -2.410908e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 40 | 9.647368e-02 | 5.024497e-03 | -2.157406e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 41 | 9.646948e-02 | 4.931790e-03 | -2.298747e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 42 | 9.635292e-02 | 4.894138e-03 | -2.142289e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 43 | 9.634992e-02 | 4.802936e-03 | -2.363250e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 44 | 9.622406e-02 | 4.768737e-03 | -2.129481e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 45 | 9.622113e-02 | 4.679030e-03 | -2.255260e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 46 | 9.611359e-02 | 4.649370e-03 | -2.107708e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 47 | 9.611278e-02 | 4.560747e-03 | -2.347900e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 48 | 9.599035e-02 | 4.534010e-03 | -2.096253e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 49 | 9.598961e-02 | 4.446845e-03 | -2.204943e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 50 | 9.589065e-02 | 4.424659e-03 | -2.072458e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 51 | 9.578353e-02 | 4.362751e-03 | -2.327989e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 52 | 9.578241e-02 | 4.277798e-03 | -1.106687e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 53 | 9.571988e-02 | 4.207116e-03 | -1.570237e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 54 | 9.565963e-02 | 4.164134e-03 | -1.361946e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| 55 | 9.561860e-02 | 4.096108e-03 | -1.539450e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 56 | 9.554317e-02 | 4.055233e-03 | -1.356717e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 57 | 9.551640e-02 | 3.989660e-03 | -1.488761e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 58 | 9.543554e-02 | 3.950816e-03 | -1.350170e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 59 | 9.542186e-02 | 3.888307e-03 | -1.496733e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 60 | 9.532757e-02 | 3.851449e-03 | -1.341960e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 61 | 9.532676e-02 | 3.791516e-03 | -1.445926e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 62 | 9.522770e-02 | 3.757061e-03 | -1.327693e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 63 | 9.518073e-02 | 3.716946e-03 | -1.387120e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 64 | 9.515613e-02 | 3.715417e-03 | -1.049359e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 65 | 9.513034e-02 | 3.672207e-03 | -1.065885e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 66 | 9.512952e-02 | 3.648855e-03 | -9.034272e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 67 | 9.512016e-02 | 3.529973e-03 | -1.157500e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 68 | 9.499093e-02 | 3.460108e-03 | -1.192748e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 69 | 9.496844e-02 | 3.360170e-03 | -1.386423e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 70 | 9.479250e-02 | 3.299151e-03 | -1.184281e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 71 | 9.471303e-02 | 3.238079e-03 | -1.351189e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 72 | 9.465803e-02 | 3.215568e-03 | -9.717743e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 73 | 9.463427e-02 | 3.158581e-03 | -1.058965e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 74 | 9.456758e-02 | 3.137945e-03 | -9.641996e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 75 | 9.455673e-02 | 3.083234e-03 | -1.027696e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 76 | 9.448260e-02 | 3.064606e-03 | -9.550567e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 77 | 9.447955e-02 | 3.011582e-03 | -9.947290e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 78 | 9.440334e-02 | 2.995256e-03 | -9.435680e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 79 | 9.440330e-02 | 2.943292e-03 | -9.701052e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 80 | 9.432863e-02 | 2.929434e-03 | -9.313217e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 81 | 9.429385e-02 | 2.892080e-03 | -9.576208e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 82 | 9.427705e-02 | 2.894536e-03 | -6.962083e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 83 | 9.426128e-02 | 2.857739e-03 | -7.546385e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 84 | 9.424379e-02 | 2.865343e-03 | -7.208764e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 85 | 9.422824e-02 | 2.828263e-03 | -7.669984e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 86 | 9.421069e-02 | 2.836890e-03 | -7.268328e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 87 | 9.419554e-02 | 2.799538e-03 | -7.687458e-03 | 7.812500e-03 | 5.000000e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 1 | | | | |
| 88 | 9.417810e-02 | 2.809105e-03 | -7.282012e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 89 | 9.416329e-02 | 2.771493e-03 | -7.681874e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 90 | 9.414600e-02 | 2.781937e-03 | -7.274663e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 91 | 9.413148e-02 | 2.744080e-03 | -7.662642e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 92 | 9.411437e-02 | 2.755355e-03 | -7.255854e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 93 | 9.410014e-02 | 2.717271e-03 | -7.636610e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 94 | 9.408322e-02 | 2.729335e-03 | -7.230902e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 95 | 9.406925e-02 | 2.691040e-03 | -7.607168e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 96 | 9.405252e-02 | 2.703861e-03 | -7.202599e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 97 | 9.403880e-02 | 2.665368e-03 | -7.575999e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 98 | 9.402228e-02 | 2.678915e-03 | -7.172418e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 99 | 9.400880e-02 | 2.640238e-03 | -7.543939e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 100 | 9.399247e-02 | 2.654486e-03 | -7.141151e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 101 | 9.397923e-02 | 2.615634e-03 | -7.511415e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 102 | 9.396310e-02 | 2.630557e-03 | -7.109251e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 103 | 9.395008e-02 | 2.591541e-03 | -7.478659e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 104 | 9.393415e-02 | 2.607118e-03 | -7.076993e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 105 | 9.392135e-02 | 2.567943e-03 | -7.445812e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 106 | 9.390561e-02 | 2.584155e-03 | -7.044557e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 107 | 9.389302e-02 | 2.544827e-03 | -7.412969e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 108 | 9.387747e-02 | 2.561657e-03 | -7.012074e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 109 | 9.386509e-02 | 2.522179e-03 | -7.380202e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 110 | 9.384973e-02 | 2.539609e-03 | -6.979638e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 111 | 9.383754e-02 | 2.499987e-03 | -7.347567e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 112 | 9.382238e-02 | 2.518002e-03 | -6.947322e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 113 | 9.381038e-02 | 2.478237e-03 | -7.315107e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 114 | 9.379540e-02 | 2.496823e-03 | -6.915181e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 115 | 9.378358e-02 | 2.456917e-03 | -7.282857e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 116 | 9.376879e-02 | 2.476061e-03 | -6.883254e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 117 | 9.375715e-02 | 2.436015e-03 | -7.250838e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 118 | 9.374254e-02 | 2.455705e-03 | -6.851564e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 119 | 9.373107e-02 | 2.415519e-03 | -7.219066e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| 120 | 9.371664e-02 | 2.435744e-03 | -6.820127e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 121 | 9.370535e-02 | 2.395420e-03 | -7.187544e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 122 | 9.369109e-02 | 2.416169e-03 | -6.788947e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 123 | 9.367996e-02 | 2.375706e-03 | -7.156273e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 124 | 9.366588e-02 | 2.396969e-03 | -6.758024e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 125 | 9.365491e-02 | 2.356368e-03 | -7.125250e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 126 | 9.364100e-02 | 2.378135e-03 | -6.727354e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 127 | 9.363019e-02 | 2.337396e-03 | -7.094471e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 128 | 9.361645e-02 | 2.359659e-03 | -6.696934e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 129 | 9.360579e-02 | 2.318781e-03 | -7.063934e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 130 | 9.359223e-02 | 2.341531e-03 | -6.666763e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 131 | 9.358172e-02 | 2.300514e-03 | -7.033637e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 132 | 9.356832e-02 | 2.323743e-03 | -6.636841e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 133 | 9.355796e-02 | 2.282587e-03 | -7.003584e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 134 | 9.354473e-02 | 2.306287e-03 | -6.607172e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 135 | 9.353451e-02 | 2.264992e-03 | -6.973779e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 136 | 9.352145e-02 | 2.289156e-03 | -6.577759e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 137 | 9.351138e-02 | 2.247719e-03 | -6.944226e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 138 | 9.349848e-02 | 2.272340e-03 | -6.548609e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
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| 608 | 9.159701e-02 | 9.657300e-04 | -3.778627e-03 | 7.812500e-03 | 3.533010e |
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| 635 | 9.156931e-02 | 8.506039e-04 | -3.888723e-03 | 7.812500e-03 | 3.643387e |
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| 665 | 9.134237e-02 | 5.923560e-04 | -2.759042e-05 | 1.000000e+00 | 2.884489e |
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| 666 | 9.134186e-02 | 5.415524e-04 | -1.462831e-05 | 5.000000e-01 | 2.894193e |
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| 667 | 9.134019e-02 | 2.884531e-04 | -1.426048e-05 | 2.500000e-01 | 2.767301e |
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| 668 | 9.133932e-02 | 3.082483e-04 | -2.825929e-06 | 1.000000e+00 | 2.019639e |
| -01 | 3 | | | | |
| 669 | 9.133892e-02 | 1.471463e-04 | -1.587975e-06 | 1.000000e+00 | 2.087788e |
| -01 | 5 | | | | |
| 670 | 9.133875e-02 | 1.140412e-04 | -5.056313e-07 | 1.000000e+00 | 1.442483e |
| -01 | 2 | | | | |
| 671 | 9.133865e-02 | 2.304017e-05 | -1.701224e-07 | 1.000000e+00 | 1.269892e |
| -01 | 2 | | | | |
| 672 | 9.133863e-02 | 4.479863e-06 | -3.249726e-08 | 1.000000e+00 | 5.707934e |

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-02      4
673      9.133863e-02      3.596361e-07      -2.461437e-09      1.000000e+00      2.516914e
-02      6
674      9.133863e-02      2.972781e-09      -1.368380e-11      1.000000e+00      7.131284e
-03      5
Norm of the gradient less than tolerance
Inexact Newton CG converged in 674 nonlinear iterations and 1696 linear iterations.
Final norm of the gradient 2.9727808868962924e-09
Value of the cost functional 0.09133863184172136
Using Symbolic Differentiation to compute the gradient
Using Symbolic Differentiation to compute the Hessian

```

| It | Energy | $\ g\ $ | (g,du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| -cg | cg_it | | | | |
| 0 | 2.056545e-01 | 5.637408e-03 | -1.461275e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 1.384502e-01 | 9.692080e-03 | -1.166814e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 2 | 1.323695e-01 | 1.821393e-02 | -7.759573e-02 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 3 | 1.237645e-01 | 1.744358e-02 | -7.785934e-01 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 4 | 1.131031e-01 | 1.589339e-02 | -9.246766e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 5 | 1.063821e-01 | 1.503802e-02 | -6.664995e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 6 | 1.053728e-01 | 1.454885e-02 | -2.461873e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 7 | 1.049175e-01 | 1.423774e-02 | -2.276754e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 8 | 1.045104e-01 | 1.392155e-02 | -2.378484e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 9 | 1.043297e-01 | 1.371984e-02 | -2.561949e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 10 | 1.039831e-01 | 1.347721e-02 | -2.746950e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 11 | 1.037036e-01 | 1.329146e-02 | -2.700733e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 12 | 1.034734e-01 | 1.307794e-02 | -2.755499e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
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| e-01 | 4 | | | | |
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| e-01 | 1 | | | | |
| 1718 | 9.049374e-02 | 1.130513e-03 | -5.557614e-04 | 3.125000e-02 | 4.108775 |
| e-01 | 1 | | | | |
| 1719 | 9.049116e-02 | 1.081410e-03 | -1.253003e-04 | 6.250000e-02 | 3.998287 |
| e-01 | 1 | | | | |
| 1720 | 9.048519e-02 | 9.334165e-04 | -1.556567e-04 | 2.500000e-01 | 3.910491 |
| e-01 | 3 | | | | |
| 1721 | 9.047931e-02 | 8.960976e-04 | -5.176419e-04 | 3.125000e-02 | 3.633071 |
| e-01 | 1 | | | | |
| 1722 | 9.047610e-02 | 8.797159e-04 | -3.320013e-04 | 3.125000e-02 | 3.559703 |
| e-01 | 1 | | | | |
| 1723 | 9.047032e-02 | 7.612452e-04 | -2.137014e-04 | 6.250000e-02 | 3.527015 |
| e-01 | 3 | | | | |
| 1724 | 9.046948e-02 | 7.870992e-04 | -1.062530e-03 | 7.812500e-03 | 3.280941 |
| e-01 | 1 | | | | |
| 1725 | 9.046633e-02 | 7.128267e-04 | -8.501152e-04 | 3.906250e-03 | 3.336190 |
| e-01 | 1 | | | | |
| 1726 | 9.046069e-02 | 1.138854e-03 | -3.611678e-05 | 1.000000e+00 | 3.174885 |
| e-01 | 3 | | | | |
| 1727 | 9.045296e-02 | 1.016003e-03 | -5.876823e-04 | 3.125000e-02 | 4.013009 |
| e-01 | 1 | | | | |
| 1728 | 9.045276e-02 | 7.539927e-04 | -2.044221e-04 | 6.250000e-02 | 3.790387 |
| e-01 | 1 | | | | |
| 1729 | 9.045019e-02 | 7.286387e-04 | -2.580668e-04 | 3.125000e-02 | 3.265274 |
| e-01 | 1 | | | | |
| 1730 | 9.044908e-02 | 5.912619e-04 | -2.441317e-05 | 1.250000e-01 | 3.209905 |
| e-01 | 1 | | | | |
| 1731 | 9.044859e-02 | 5.494913e-04 | -1.164667e-05 | 1.250000e-01 | 2.891519 |
| e-01 | 1 | | | | |
| 1732 | 9.044814e-02 | 4.507543e-04 | -8.785713e-06 | 1.250000e-01 | 2.787510 |
| e-01 | 1 | | | | |
| 1733 | 9.044797e-02 | 4.456557e-04 | -7.369314e-06 | 1.250000e-01 | 2.524678 |
| e-01 | 1 | | | | |
| 1734 | 9.044764e-02 | 3.648226e-04 | -1.496906e-05 | 3.125000e-02 | 2.510359 |
| e-01 | 1 | | | | |
| 1735 | 9.044622e-02 | 1.538960e-04 | -2.531510e-06 | 1.000000e+00 | 2.271313 |
| e-01 | 2 | | | | |
| 1736 | 9.044529e-02 | 5.512754e-05 | -1.715547e-06 | 1.000000e+00 | 1.475196 |
| e-01 | 8 | | | | |
| 1737 | 9.044520e-02 | 1.864167e-05 | -1.612119e-07 | 1.000000e+00 | 8.829181 |
| e-02 | 3 | | | | |
| 1738 | 9.044518e-02 | 4.674918e-06 | -3.224854e-08 | 1.000000e+00 | 5.134267 |
| e-02 | 8 | | | | |
| 1739 | 9.044518e-02 | 8.380356e-07 | -4.000282e-09 | 1.000000e+00 | 2.571124 |
| e-02 | 4 | | | | |
| 1740 | 9.044518e-02 | 4.268263e-08 | -1.526141e-10 | 1.000000e+00 | 1.088597 |
| e-02 | 6 | | | | |
| 1741 | 9.044518e-02 | 1.281040e-10 | -4.392632e-13 | 1.000000e+00 | 2.456754 |
| e-03 | 13 | | | | |

Norm of the gradient less than tolerance

Inexact Newton CG converged in 1741 nonlinear iterations and 3492 linear iterations.

Final norm of the gradient 1.2810401851769273e-10

Value of the cost functional 0.09044517718080217

Using Symbolic Differentiation to compute the gradient

Using Symbolic Differentiation to compute the Hessian

| It | Energy | $ g $ | (g,du) | alpha | tol |
|-----|--------------|--------------|---------------|--------------|-----------|
| _cg | cg_it | | | | |
| 0 | 2.148436e-01 | 5.819719e-03 | -1.314655e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 1.578046e-01 | 1.005424e-02 | -9.129927e-02 | 1.000000e+00 | 5.000000e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 1 | | | | |
| 2 | 1.343913e-01 | 1.866170e-02 | -9.774318e-02 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 3 | 1.309152e-01 | 1.833460e-02 | -7.771181e-01 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 4 | 1.211294e-01 | 1.663242e-02 | -1.122451e+00 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 5 | 1.119281e-01 | 1.558089e-02 | -9.053651e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 6 | 1.110620e-01 | 1.474943e-02 | -3.161466e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 7 | 1.106185e-01 | 1.447104e-02 | -2.862316e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 8 | 1.104645e-01 | 1.407355e-02 | -3.077339e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 9 | 1.101237e-01 | 1.393398e-02 | -3.211154e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 10 | 1.100587e-01 | 1.360897e-02 | -3.479542e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 11 | 1.095396e-01 | 1.350477e-02 | -3.472232e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 12 | 1.073606e-01 | 1.323300e-02 | -3.622316e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 13 | 1.071851e-01 | 1.309112e-02 | -1.182912e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 14 | 1.070384e-01 | 1.291991e-02 | -1.188821e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 15 | 1.068589e-01 | 1.284669e-02 | -1.128099e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 16 | 1.067754e-01 | 1.270992e-02 | -1.206589e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 17 | 1.065738e-01 | 1.263904e-02 | -1.168127e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 18 | 1.065183e-01 | 1.250826e-02 | -1.231751e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 19 | 1.063048e-01 | 1.244695e-02 | -1.188447e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 20 | 1.062666e-01 | 1.231395e-02 | -1.232704e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 21 | 1.060382e-01 | 1.225749e-02 | -1.169326e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 22 | 1.060232e-01 | 1.213071e-02 | -1.211539e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 23 | 1.057807e-01 | 1.207667e-02 | -1.134733e-01 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 24 | 1.055157e-01 | 1.197724e-02 | -1.195766e-01 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 25 | 1.054396e-01 | 1.195756e-02 | -6.741916e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 26 | 1.054067e-01 | 1.188095e-02 | -7.188663e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 27 | 1.053233e-01 | 1.185432e-02 | -6.624397e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 28 | 1.053005e-01 | 1.179268e-02 | -7.139331e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 29 | 1.052132e-01 | 1.176721e-02 | -6.702187e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 30 | 1.051948e-01 | 1.170593e-02 | -7.177557e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 31 | 1.051042e-01 | 1.168103e-02 | -6.710990e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 32 | 1.050900e-01 | 1.162017e-02 | -7.150754e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 33 | 1.049979e-01 | 1.159588e-02 | -6.691425e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| 34 | 1.049869e-01 | 1.153546e-02 | -7.116899e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 35 | 1.048942e-01 | 1.151178e-02 | -6.667763e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 36 | 1.048860e-01 | 1.145181e-02 | -7.093197e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 37 | 1.047927e-01 | 1.142874e-02 | -6.642149e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 38 | 1.047869e-01 | 1.136922e-02 | -7.059619e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 39 | 1.046936e-01 | 1.134676e-02 | -6.614684e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 40 | 1.046901e-01 | 1.128770e-02 | -7.032932e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 41 | 1.045966e-01 | 1.126585e-02 | -6.585359e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 42 | 1.045952e-01 | 1.120723e-02 | -6.997417e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 43 | 1.045020e-01 | 1.118598e-02 | -6.554252e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 44 | 1.044211e-01 | 1.114479e-02 | -6.967257e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 45 | 1.044068e-01 | 1.112314e-02 | -3.420410e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 46 | 1.043784e-01 | 1.106030e-02 | -5.069545e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 47 | 1.043230e-01 | 1.103820e-02 | -4.937562e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 48 | 1.042997e-01 | 1.097968e-02 | -5.635233e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 49 | 1.042244e-01 | 1.095822e-02 | -5.050287e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 50 | 1.042152e-01 | 1.090016e-02 | -5.535803e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 51 | 1.041309e-01 | 1.087924e-02 | -5.029503e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 52 | 1.041288e-01 | 1.082156e-02 | -5.411461e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 53 | 1.040429e-01 | 1.080118e-02 | -5.009938e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 54 | 1.039886e-01 | 1.076245e-02 | -5.400469e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 55 | 1.039637e-01 | 1.076287e-02 | -3.431324e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 56 | 1.039556e-01 | 1.070569e-02 | -3.450315e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 57 | 1.039176e-01 | 1.068016e-02 | -4.193578e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 58 | 1.038845e-01 | 1.062739e-02 | -4.937281e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 59 | 1.038246e-01 | 1.060241e-02 | -4.425259e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 60 | 1.038043e-01 | 1.055006e-02 | -4.905816e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 61 | 1.037338e-01 | 1.052553e-02 | -4.422230e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 62 | 1.037234e-01 | 1.047359e-02 | -4.850943e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 63 | 1.036459e-01 | 1.044955e-02 | -4.409487e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 64 | 1.036417e-01 | 1.039799e-02 | -4.780062e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 65 | 1.035614e-01 | 1.037448e-02 | -4.392492e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 66 | 1.035606e-01 | 1.032328e-02 | -4.748346e-02 | 3.906250e-03 | 5.000000e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 1 | | | | |
| 67 | 1.034786e-01 | 1.030030e-02 | -4.374327e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 68 | 1.034351e-01 | 1.026715e-02 | -4.713311e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 69 | 1.034132e-01 | 1.026026e-02 | -3.283786e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 70 | 1.034124e-01 | 1.020939e-02 | -3.458118e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 71 | 1.033667e-01 | 1.018575e-02 | -4.006139e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 72 | 1.033418e-01 | 1.013621e-02 | -4.565482e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 73 | 1.032852e-01 | 1.011319e-02 | -4.161126e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 74 | 1.032696e-01 | 1.006417e-02 | -4.638709e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 75 | 1.032033e-01 | 1.004165e-02 | -4.190479e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 76 | 1.031959e-01 | 9.992989e-03 | -4.604923e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 77 | 1.031234e-01 | 9.970948e-03 | -4.181075e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 78 | 1.031215e-01 | 9.922584e-03 | -4.546592e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 79 | 1.030463e-01 | 9.901036e-03 | -4.168813e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 80 | 1.030033e-01 | 9.869537e-03 | -4.527040e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 81 | 1.029831e-01 | 9.863009e-03 | -3.052846e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 82 | 1.029823e-01 | 9.814638e-03 | -3.240418e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 83 | 1.029341e-01 | 9.791777e-03 | -3.615465e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 84 | 1.029165e-01 | 9.744723e-03 | -4.156339e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 85 | 1.028539e-01 | 9.722352e-03 | -3.695088e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 86 | 1.028455e-01 | 9.675620e-03 | -4.074323e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 87 | 1.027775e-01 | 9.653741e-03 | -3.686573e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 88 | 1.027747e-01 | 9.607335e-03 | -4.045545e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 89 | 1.027027e-01 | 9.585944e-03 | -3.675604e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 90 | 1.026674e-01 | 9.555985e-03 | -3.998214e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 91 | 1.026481e-01 | 9.551677e-03 | -2.901736e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 92 | 1.026478e-01 | 9.504705e-03 | -3.096405e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 93 | 1.026003e-01 | 9.483833e-03 | -3.422382e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 94 | 1.025821e-01 | 9.437609e-03 | -3.859709e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 95 | 1.025237e-01 | 9.414845e-03 | -3.423278e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 96 | 1.025141e-01 | 9.371214e-03 | -3.779053e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 97 | 1.024508e-01 | 9.348934e-03 | -3.416627e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 98 | 1.024464e-01 | 9.305626e-03 | -3.760379e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| 99 | 1.023791e-01 | 9.283818e-03 | -3.407508e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 100 | 1.023782e-01 | 9.240796e-03 | -3.717201e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 101 | 1.023094e-01 | 9.219467e-03 | -3.397156e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 102 | 1.022781e-01 | 9.192045e-03 | -3.699910e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 103 | 1.022601e-01 | 9.187055e-03 | -2.765488e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 104 | 1.022431e-01 | 9.159844e-03 | -2.993684e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 105 | 1.022238e-01 | 9.154180e-03 | -2.729509e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 106 | 1.022073e-01 | 9.123875e-03 | -2.904777e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 107 | 1.021880e-01 | 9.121292e-03 | -2.674195e-02 | 1.953125e-03 | 5.000000e |
| -01 | 1 | | | | |
| 108 | 1.021873e-01 | 9.075008e-03 | -2.846667e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 109 | 1.021331e-01 | 9.056475e-03 | -2.946380e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 110 | 1.021269e-01 | 9.011281e-03 | -3.393338e-02 | 3.906250e-03 | 5.000000e |
| -01 | 1 | | | | |
| 111 | 1.021247e-01 | 8.961901e-03 | -3.048684e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 112 | 1.020115e-01 | 8.885722e-03 | -3.553748e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
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| e-01 | 1 | | | | |
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| e-01 | 1 | | | | |
| 4969 | 9.117310e-02 | 1.597983e-03 | -3.317170e-03 | 1.953125e-03 | 4.741099 |
| e-01 | 1 | | | | |
| 4970 | 9.117271e-02 | 1.589318e-03 | -3.574152e-03 | 1.953125e-03 | 4.753595 |
| e-01 | 1 | | | | |
| 4971 | 9.117233e-02 | 1.597710e-03 | -3.310816e-03 | 1.953125e-03 | 4.740690 |
| e-01 | 1 | | | | |
| 4972 | 9.117194e-02 | 1.589044e-03 | -3.566683e-03 | 1.953125e-03 | 4.753189 |
| e-01 | 1 | | | | |
| 4973 | 9.117156e-02 | 1.597437e-03 | -3.303272e-03 | 1.953125e-03 | 4.740280 |
| e-01 | 1 | | | | |

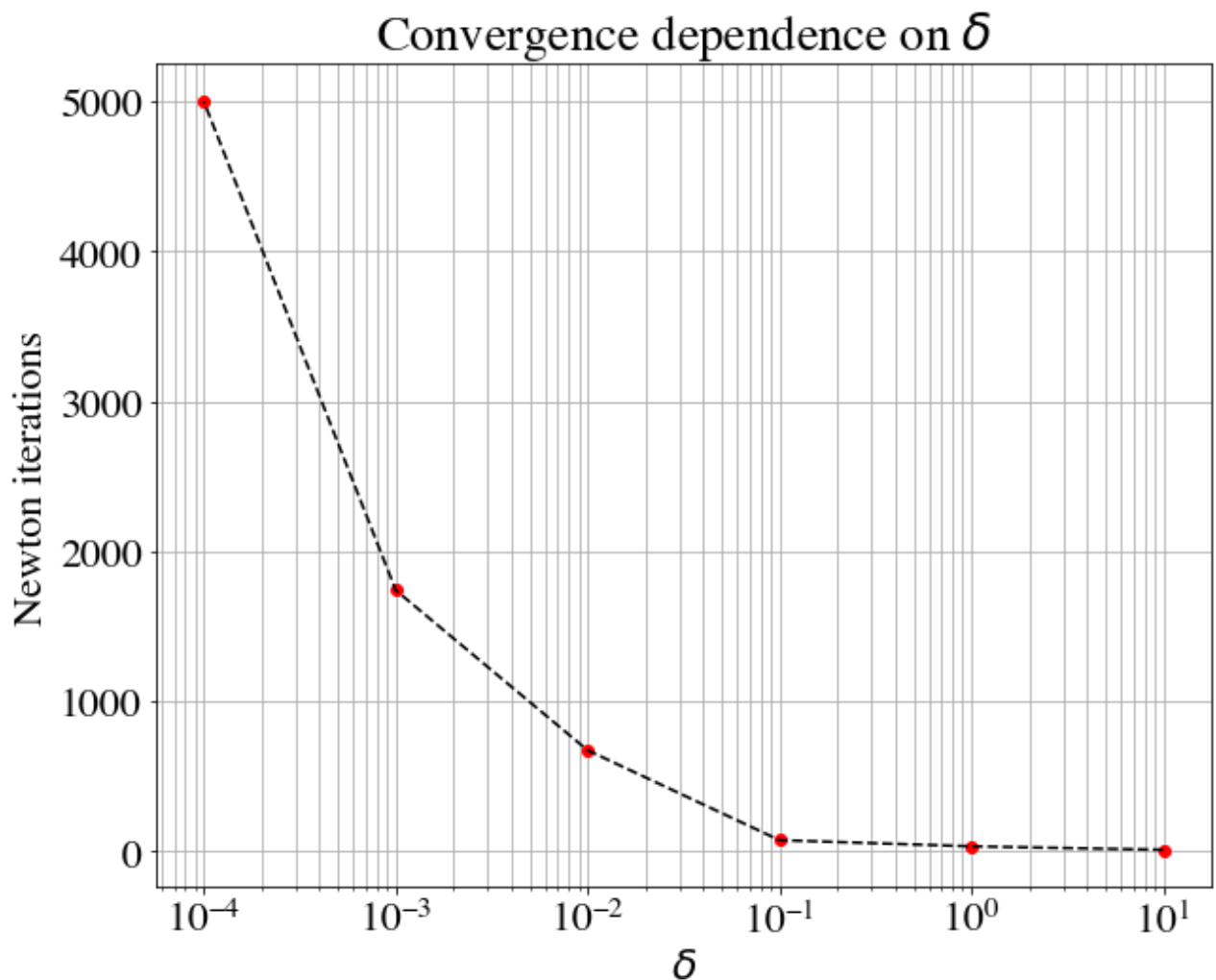
| | | | | | |
|------|--------------|--------------|---------------|--------------|----------|
| 4974 | 9.117117e-02 | 1.588769e-03 | -3.557665e-03 | 1.953125e-03 | 4.752783 |
| e-01 | 1 | | | | |
| 4975 | 9.117079e-02 | 1.597164e-03 | -3.294011e-03 | 1.953125e-03 | 4.739871 |
| e-01 | 1 | | | | |
| 4976 | 9.117039e-02 | 1.588495e-03 | -3.546349e-03 | 1.953125e-03 | 4.752377 |
| e-01 | 1 | | | | |
| 4977 | 9.117002e-02 | 1.596891e-03 | -3.282140e-03 | 1.953125e-03 | 4.739461 |
| e-01 | 1 | | | | |
| 4978 | 9.116962e-02 | 1.588220e-03 | -3.531427e-03 | 1.953125e-03 | 4.751971 |
| e-01 | 1 | | | | |
| 4979 | 9.116925e-02 | 1.596618e-03 | -3.266029e-03 | 1.953125e-03 | 4.739052 |
| e-01 | 1 | | | | |
| 4980 | 9.116884e-02 | 1.587946e-03 | -3.510395e-03 | 1.953125e-03 | 4.751564 |
| e-01 | 1 | | | | |
| 4981 | 9.116846e-02 | 1.596345e-03 | -3.242395e-03 | 1.953125e-03 | 4.738642 |
| e-01 | 1 | | | | |
| 4982 | 9.116804e-02 | 1.587671e-03 | -3.477866e-03 | 1.953125e-03 | 4.751158 |
| e-01 | 1 | | | | |
| 4983 | 9.116766e-02 | 1.596071e-03 | -3.203629e-03 | 1.953125e-03 | 4.738232 |
| e-01 | 1 | | | | |
| 4984 | 9.116722e-02 | 1.587395e-03 | -3.420169e-03 | 1.953125e-03 | 4.750750 |
| e-01 | 1 | | | | |
| 4985 | 9.116681e-02 | 1.595794e-03 | -3.128106e-03 | 1.953125e-03 | 4.737821 |
| e-01 | 1 | | | | |
| 4986 | 9.116632e-02 | 1.587113e-03 | -3.292621e-03 | 1.953125e-03 | 4.750338 |
| e-01 | 1 | | | | |
| 4987 | 9.116580e-02 | 1.595498e-03 | -2.930964e-03 | 1.953125e-03 | 4.737400 |
| e-01 | 1 | | | | |
| 4988 | 9.116505e-02 | 1.586746e-03 | -2.883005e-03 | 1.953125e-03 | 4.749897 |
| e-01 | 1 | | | | |
| 4989 | 9.116418e-02 | 1.583566e-03 | -2.194784e-03 | 1.953125e-03 | 4.736852 |
| e-01 | 1 | | | | |
| 4990 | 9.116388e-02 | 1.580655e-03 | -2.154888e-03 | 1.953125e-03 | 4.732103 |
| e-01 | 1 | | | | |
| 4991 | 9.116348e-02 | 1.582880e-03 | -2.037166e-03 | 1.953125e-03 | 4.727751 |
| e-01 | 1 | | | | |
| 4992 | 9.116315e-02 | 1.579965e-03 | -2.226039e-03 | 1.953125e-03 | 4.731077 |
| e-01 | 1 | | | | |
| 4993 | 9.116270e-02 | 1.582194e-03 | -2.063738e-03 | 1.953125e-03 | 4.726720 |
| e-01 | 1 | | | | |
| 4994 | 9.116237e-02 | 1.579277e-03 | -2.228532e-03 | 1.953125e-03 | 4.730052 |
| e-01 | 1 | | | | |
| 4995 | 9.116193e-02 | 1.581511e-03 | -2.064097e-03 | 1.953125e-03 | 4.725690 |
| e-01 | 1 | | | | |
| 4996 | 9.116159e-02 | 1.578591e-03 | -2.227857e-03 | 1.953125e-03 | 4.729031 |
| e-01 | 1 | | | | |
| 4997 | 9.116115e-02 | 1.580830e-03 | -2.063414e-03 | 1.953125e-03 | 4.724664 |
| e-01 | 1 | | | | |
| 4998 | 9.116082e-02 | 1.577908e-03 | -2.227120e-03 | 1.953125e-03 | 4.728014 |
| e-01 | 1 | | | | |
| 4999 | 9.116037e-02 | 1.580153e-03 | -2.062711e-03 | 1.953125e-03 | 4.723642 |
| e-01 | 1 | | | | |

Maximum number of Iteration reached

Inexact Newton CG did NOT converge after 4999 nonlinear iterations and 8492 linear iterations.

Final norm of the gradient 0.0015801529820965651

Value of the cost functional 0.09116037175237704



Increasing the δ causes a sharp drop in the Newton steps for convergence, plateauing at almost a constant value. This happens as Hessian becomes more ill-conditioned when the δ is reduced. Also, the size of the valley of optimal convergence also reduces with decreasing δ . So, it takes more steps to find that valley.

Part(c): Comparing the best reconstructions for Tikhonov and Total Variation Reconstructions

```
In [11]: #Best reconstructions
#TN Regularization
alpha = 1e-3
u_tn = Function(V)
# linear solve
a_tn, L_tn = TN_functions(alpha)
solve(a_tn==L_tn, u_tn)

#TV Regularization
alpha = 1e-2
```

```

delta = 0.01
u_tv = Function(V)
F_tv = TV_functions(alpha,delta,u_tv)
solver.solve(F_tv, u_tv)

# Misfit
res_tv_norm.append(np.linalg.norm(u_tv.vector()[:] - u_0.vector()[:]))
u_tv_norm.append(np.linalg.norm(u_tv.vector()[:]))
u_tv_list.append(u_tv.copy())

#plotting the images
plt.figure(figsize=(8,8))
plot(u_tn, title="Tikhonov  $\alpha$ =%.1e" % (alpha), vmin=vmin, vmax = vmax)
plt.figure(figsize=(8,8))
plot(u_tv, title="Total variation  $\alpha$ =%.1e" % (alpha), vmin=vmin, vmax = vm

```

Using Symbolic Differentiation to compute the gradient

Using Symbolic Differentiation to compute the Hessian

| It | Energy | $ g $ | (g,du) | alpha | tol |
|-------|--------------|--------------|---------------|--------------|-----------|
| cg_it | | | | | |
| 0 | 1.859864e-01 | 5.212611e-03 | -1.795858e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 1 | 1.201357e-01 | 9.879401e-03 | -1.191994e-01 | 1.000000e+00 | 5.000000e |
| -01 | 1 | | | | |
| 2 | 1.152185e-01 | 1.385010e-02 | -6.056340e-02 | 5.000000e-01 | 5.000000e |
| -01 | 1 | | | | |
| 3 | 1.106088e-01 | 1.279555e-02 | -3.785992e-01 | 6.250000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 4 | 1.046458e-01 | 1.151200e-02 | -3.269478e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 5 | 1.042907e-01 | 1.095296e-02 | -1.627935e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 6 | 1.037626e-01 | 1.052778e-02 | -1.580796e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 7 | 1.037016e-01 | 1.017335e-02 | -1.692858e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 8 | 1.032060e-01 | 9.900013e-03 | -1.701277e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 9 | 1.031387e-01 | 9.581754e-03 | -1.787761e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 10 | 1.025821e-01 | 9.332920e-03 | -1.735101e-01 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 11 | 1.005952e-01 | 9.109342e-03 | -1.789125e-01 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 12 | 1.003858e-01 | 8.945201e-03 | -7.318733e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 13 | 1.002530e-01 | 8.758111e-03 | -7.322344e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 14 | 1.000485e-01 | 8.579300e-03 | -6.357488e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 15 | 9.998370e-02 | 8.443755e-03 | -6.860593e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 16 | 9.976087e-02 | 8.313676e-03 | -6.252427e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 17 | 9.970939e-02 | 8.186603e-03 | -6.605956e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 18 | 9.951759e-02 | 8.052822e-03 | -6.181573e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 19 | 9.948068e-02 | 7.932705e-03 | -6.760597e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 20 | 9.926061e-02 | 7.810180e-03 | -6.168150e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 21 | 9.923107e-02 | 7.693883e-03 | -6.512519e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| 22 | 9.905247e-02 | 7.579462e-03 | -6.135379e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 23 | 9.903016e-02 | 7.466387e-03 | -6.758938e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 24 | 9.881656e-02 | 7.357650e-03 | -6.132679e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 25 | 9.844974e-02 | 7.238892e-03 | -6.601966e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 26 | 9.844805e-02 | 6.967149e-03 | -1.676249e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 27 | 9.823221e-02 | 6.730192e-03 | -2.494748e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 28 | 9.810046e-02 | 6.536656e-03 | -2.385934e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 29 | 9.791469e-02 | 6.318948e-03 | -2.799312e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 30 | 9.768050e-02 | 6.143337e-03 | -2.363663e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 31 | 9.760106e-02 | 5.942002e-03 | -2.671921e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 32 | 9.730915e-02 | 5.782398e-03 | -2.321333e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 33 | 9.730913e-02 | 5.597963e-03 | -2.595965e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 34 | 9.697056e-02 | 5.453019e-03 | -2.285117e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 35 | 9.683607e-02 | 5.353377e-03 | -2.555133e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 36 | 9.675577e-02 | 5.305874e-03 | -1.971556e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 37 | 9.672989e-02 | 5.207189e-03 | -2.390748e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 38 | 9.661435e-02 | 5.161560e-03 | -2.157480e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 39 | 9.660471e-02 | 5.066649e-03 | -2.410908e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 40 | 9.647368e-02 | 5.024497e-03 | -2.157406e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 41 | 9.646948e-02 | 4.931790e-03 | -2.298747e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 42 | 9.635292e-02 | 4.894138e-03 | -2.142289e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 43 | 9.634992e-02 | 4.802936e-03 | -2.363250e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 44 | 9.622406e-02 | 4.768737e-03 | -2.129481e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 45 | 9.622113e-02 | 4.679030e-03 | -2.255260e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 46 | 9.611359e-02 | 4.649370e-03 | -2.107708e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 47 | 9.611278e-02 | 4.560747e-03 | -2.347900e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 48 | 9.599035e-02 | 4.534010e-03 | -2.096253e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 49 | 9.598961e-02 | 4.446845e-03 | -2.204943e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 50 | 9.589065e-02 | 4.424659e-03 | -2.072458e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 51 | 9.578353e-02 | 4.362751e-03 | -2.327989e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 52 | 9.578241e-02 | 4.277798e-03 | -1.106687e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 53 | 9.571988e-02 | 4.207116e-03 | -1.570237e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 54 | 9.565963e-02 | 4.164134e-03 | -1.361946e-02 | 1.562500e-02 | 5.000000e |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| -01 | 1 | | | | |
| 55 | 9.561860e-02 | 4.096108e-03 | -1.539450e-02 | 1.562500e-02 | 5.000000e |
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| 56 | 9.554317e-02 | 4.055233e-03 | -1.356717e-02 | 1.562500e-02 | 5.000000e |
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| 57 | 9.551640e-02 | 3.989660e-03 | -1.488761e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 58 | 9.543554e-02 | 3.950816e-03 | -1.350170e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 59 | 9.542186e-02 | 3.888307e-03 | -1.496733e-02 | 1.562500e-02 | 5.000000e |
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| 60 | 9.532757e-02 | 3.851449e-03 | -1.341960e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 61 | 9.532676e-02 | 3.791516e-03 | -1.445926e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 62 | 9.522770e-02 | 3.757061e-03 | -1.327693e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 63 | 9.518073e-02 | 3.716946e-03 | -1.387120e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 64 | 9.515613e-02 | 3.715417e-03 | -1.049359e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 65 | 9.513034e-02 | 3.672207e-03 | -1.065885e-02 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 66 | 9.512952e-02 | 3.648855e-03 | -9.034272e-03 | 1.562500e-02 | 5.000000e |
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| -01 | 1 | | | | |
| 68 | 9.499093e-02 | 3.460108e-03 | -1.192748e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
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| -01 | 1 | | | | |
| 70 | 9.479250e-02 | 3.299151e-03 | -1.184281e-02 | 3.125000e-02 | 5.000000e |
| -01 | 1 | | | | |
| 71 | 9.471303e-02 | 3.238079e-03 | -1.351189e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 72 | 9.465803e-02 | 3.215568e-03 | -9.717743e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 73 | 9.463427e-02 | 3.158581e-03 | -1.058965e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 74 | 9.456758e-02 | 3.137945e-03 | -9.641996e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 75 | 9.455673e-02 | 3.083234e-03 | -1.027696e-02 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 76 | 9.448260e-02 | 3.064606e-03 | -9.550567e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 77 | 9.447955e-02 | 3.011582e-03 | -9.947290e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 78 | 9.440334e-02 | 2.995256e-03 | -9.435680e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 79 | 9.440330e-02 | 2.943292e-03 | -9.701052e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 80 | 9.432863e-02 | 2.929434e-03 | -9.313217e-03 | 1.562500e-02 | 5.000000e |
| -01 | 1 | | | | |
| 81 | 9.429385e-02 | 2.892080e-03 | -9.576208e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 82 | 9.427705e-02 | 2.894536e-03 | -6.962083e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 83 | 9.426128e-02 | 2.857739e-03 | -7.546385e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 84 | 9.424379e-02 | 2.865343e-03 | -7.208764e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 85 | 9.422824e-02 | 2.828263e-03 | -7.669984e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 86 | 9.421069e-02 | 2.836890e-03 | -7.268328e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |

| | | | | | |
|-----|--------------|--------------|---------------|--------------|-----------|
| 87 | 9.419554e-02 | 2.799538e-03 | -7.687458e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 88 | 9.417810e-02 | 2.809105e-03 | -7.282012e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 89 | 9.416329e-02 | 2.771493e-03 | -7.681874e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 90 | 9.414600e-02 | 2.781937e-03 | -7.274663e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 91 | 9.413148e-02 | 2.744080e-03 | -7.662642e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 92 | 9.411437e-02 | 2.755355e-03 | -7.255854e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 93 | 9.410014e-02 | 2.717271e-03 | -7.636610e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 94 | 9.408322e-02 | 2.729335e-03 | -7.230902e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 95 | 9.406925e-02 | 2.691040e-03 | -7.607168e-03 | 7.812500e-03 | 5.000000e |
| -01 | 1 | | | | |
| 96 | 9.405252e-02 | 2.703861e-03 | -7.202599e-03 | 7.812500e-03 | 5.000000e |
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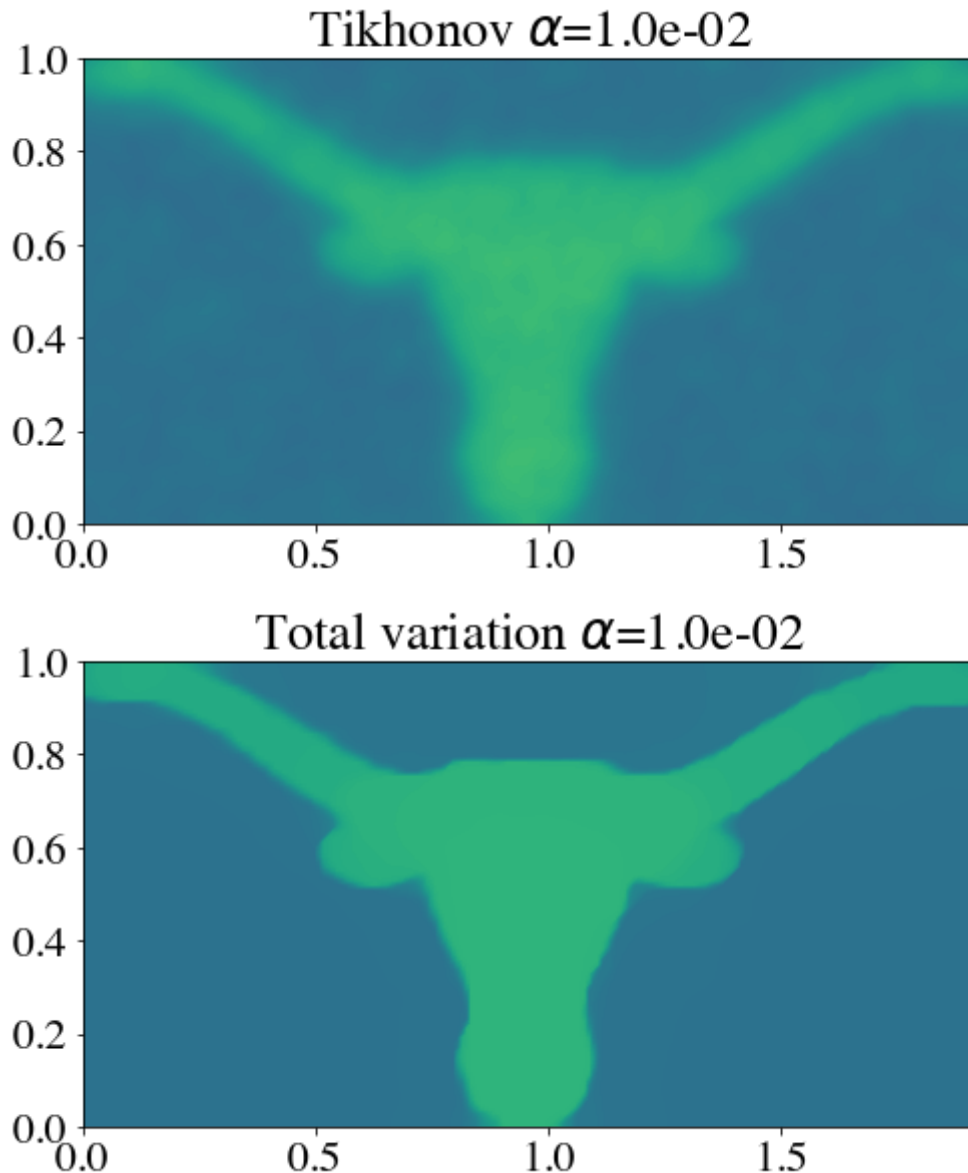
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| 646 | 9.155863e-02 | 9.269430e-04 | -3.469789e-03 | 7.812500e-03 | 3.445799e |
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| 647 | 9.155747e-02 | 8.375077e-04 | -3.694150e-03 | 7.812500e-03 | 3.620450e |
| -01 | 1 | | | | |
| 648 | 9.155660e-02 | 9.250189e-04 | -3.414726e-03 | 7.812500e-03 | 3.441363e |
| -01 | 1 | | | | |
| 649 | 9.155538e-02 | 8.353521e-04 | -3.622000e-03 | 7.812500e-03 | 3.616691e |
| -01 | 1 | | | | |
| 650 | 9.155448e-02 | 9.231016e-04 | -3.334700e-03 | 7.812500e-03 | 3.436931e |
| -01 | 1 | | | | |
| 651 | 9.155313e-02 | 8.331938e-04 | -3.511197e-03 | 7.812500e-03 | 3.612941e |
| -01 | 1 | | | | |
| 652 | 9.155212e-02 | 9.211780e-04 | -3.203349e-03 | 7.812500e-03 | 3.432489e |
| -01 | 1 | | | | |
| 653 | 9.155048e-02 | 8.310088e-04 | -3.313013e-03 | 7.812500e-03 | 3.609174e |
| -01 | 1 | | | | |
| 654 | 9.154911e-02 | 9.191836e-04 | -2.940749e-03 | 7.812500e-03 | 3.427985e |
| -01 | 1 | | | | |
| 655 | 9.154659e-02 | 8.286678e-04 | -2.854891e-03 | 7.812500e-03 | 3.605265e |
| -01 | 1 | | | | |
| 656 | 9.154343e-02 | 9.163953e-04 | -2.200569e-03 | 7.812500e-03 | 3.423153e |
| -01 | 1 | | | | |
| 657 | 9.153710e-02 | 8.172138e-04 | -1.314414e-03 | 7.812500e-03 | 3.599793e |
| -01 | 1 | | | | |
| 658 | 9.140290e-02 | 1.101697e-03 | -4.337430e-04 | 5.000000e-01 | 3.399413e |
| -01 | 2 | | | | |
| 659 | 9.139515e-02 | 1.049167e-03 | -2.489609e-03 | 7.812500e-03 | 3.947000e |
| -01 | 1 | | | | |
| 660 | 9.139100e-02 | 1.029284e-03 | -5.476524e-04 | 1.562500e-02 | 3.851753e |
| -01 | 1 | | | | |
| 661 | 9.138173e-02 | 6.537445e-04 | -1.585354e-04 | 5.000000e-01 | 3.815080e |
| -01 | 2 | | | | |
| 662 | 9.136285e-02 | 6.489884e-04 | -2.353183e-03 | 1.562500e-02 | 3.040466e |
| -01 | 1 | | | | |
| 663 | 9.135827e-02 | 6.413729e-04 | -1.715515e-03 | 7.812500e-03 | 3.029386e |
| -01 | 1 | | | | |
| 664 | 9.135421e-02 | 5.883905e-04 | -6.030191e-04 | 7.812500e-03 | 3.011559e |
| -01 | 1 | | | | |
| 665 | 9.134237e-02 | 5.923560e-04 | -2.759042e-05 | 1.000000e+00 | 2.884489e |
| -01 | 2 | | | | |
| 666 | 9.134186e-02 | 5.415524e-04 | -1.462831e-05 | 5.000000e-01 | 2.894193e |
| -01 | 1 | | | | |
| 667 | 9.134019e-02 | 2.884531e-04 | -1.426048e-05 | 2.500000e-01 | 2.767301e |
| -01 | 2 | | | | |
| 668 | 9.133932e-02 | 3.082483e-04 | -2.825929e-06 | 1.000000e+00 | 2.019639e |
| -01 | 3 | | | | |
| 669 | 9.133892e-02 | 1.471463e-04 | -1.587975e-06 | 1.000000e+00 | 2.087788e |
| -01 | 5 | | | | |
| 670 | 9.133875e-02 | 1.140412e-04 | -5.056313e-07 | 1.000000e+00 | 1.442483e |
| -01 | 2 | | | | |
| 671 | 9.133865e-02 | 2.304017e-05 | -1.701224e-07 | 1.000000e+00 | 1.269892e |
| -01 | 2 | | | | |

```

672  9.133863e-02  4.479863e-06 -3.249726e-08  1.000000e+00  5.707934e
-02    4
673  9.133863e-02  3.596361e-07 -2.461437e-09  1.000000e+00  2.516914e
-02    6
674  9.133863e-02  2.972781e-09 -1.368380e-11  1.000000e+00  7.131284e
-03    5
Norm of the gradient less than tolerance
Inexact Newton CG converged in 674 nonlinear iterations and 9265 linear iterations.
Final norm of the gradient 2.9727808868962924e-09
Value of the cost functional 0.09133863184172136

```

```
Out[11]: <matplotlib.tri.tricontour.TriContourSet at 0x7f9a5b6d31c0>
```



From the optimal results for TV and TN regularizations, it is evident that the TV regularization preserves the edges but TN regularization smears sharp edges. This occurs since TN solves the diffusion problem isotropically, i.e., both in the direction of fastest gradient and its perpendicular direction.

However, TV solves the diffusion problem in the direction perpendicular to the steepest gradient. This leads to the Newton steps that encourage diffusion and subsequently, smoothness. Moreover, it discourages diffusion and preserves sharp edges in the direction of the gradients.