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In [1]: import torch
import numpy as np
from torch.autograd import Variable
import time

#Call model of layers and its forward step
from Forward_with_Layer_Setting import Net

device = torch.device("cuda:0" if torch.cuda.is_available() else "cpu")

#Call training functions of Loss functions
from NSpde_loss import lossNSpde
from MvBdry_Coefficient_and_Loss import lossMvBdry
from BoundaryLoss import lossBdry
from InitialConditionLoss import lossIC, lossIC_with

def create_network(IC_Only_Train):

    net = Net()
    net = net.to(device)

    #Set final times for running training
    time_slices = np.array([.01,.1]) #, .25, .5, 1

    #Load Training Points
    x_domain, y_domain, t_zero, x_Bdry, y_Bdry, x_l_Bdry, x_u_Bdry, y_l_Bdry, y_u_Bdry = twoDimTrainPts(net)

    start = time.time()

    #Start Training only on IC
    if IC_Only_Train == True:
        print('Training Only on the Initial Condition')
        Create_IC_Parameters(x_domain, y_domain, t_zero, 30000, 10**-3, 'IC_Only.pt', record_loss = 100, p
        IC_Done = time.time()
        print('IC Time:\t', IC_Done-start)

        print('Training Only on the NSpde Condition')

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NSpde_Only_training(net, x_domain, y_domain, t_zero, x_Bdry, y_Bdry, x_l_Bdry, x_u_Bdry,
                    y_l_Bdry, y_u_Bdry, time_slices, 20000, 10**-3, record_loss = 100, print_loss = 1000)
torch.save(net.state_dict(), f"NSpde_afterIC.pt")
NSpde_Done = time.time()
print('MvBdry Time:\t', NSpde_Done-start)

    return 0

time_vec = [0, 0, 0, 0]

#attempt to load IC if it exists
try:
    net.load_state_dict(torch.load("IC_Only.pt"))
except:
    pass

#attempt to load MvBdry if it exists
try:
    net.load_state_dict(torch.load("NSpde_Only.pt"))
except:
    pass

global epsilon #used to track loss
epsilon = []

print('Training PDE')

for i in range(4):
    #Set loop to optimize in progressively smaller learning rates
    if i == 0:
        #First loop uses progressively increasing time intervals
        print('Executing Pass 1')
        iterations = 20000
        learning_rate = 10**-4
    elif i == 1:
        print('Executing Pass 2')
        #time_slices = time_slices[-1]
        iterations = 20000
        learning_rate = 10**-5
    elif i == 2:
        print('Executing Pass 3')

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        iterations = 20000
        learning_rate = 5*10**-6
    elif i ==3:
        print('Executing Pass 4')
        iterations = 20000
        learning_rate = 10**-6

    training_loop(net, x_domain, y_domain, t_zero, x_Bdry, y_Bdry, x_l_Bdry, x_u_Bdry,
                  y_l_Bdry, y_u_Bdry, time_slices, iterations, learning_rate, IC_coefficient = 1, reco
    torch.save(net.state_dict(), f"NNlayers_Bubble_{i}.pt")
    np.savetxt('epsilon.txt', epsilon)
    time_vec[i] = time.time()

np.savetxt('epsilon.txt', epsilon)

end = time.time()

print("Total Time:\t", end-start, '\nPass 1 Time:\t', time_vec[0]-start, '\nPass 2 Time:\t', time_vec[1]-start)

def twoDimTrainPts(net, Domain_collocation, Bdry_collocation):
    #Set of all the recorded xy variables as base data for chasing during training

    # Domain boundary in the range [0, 1]x[0, 2] and time in [0, 1].
    x_l = net.x1_l
    x_u = net.x1_u
    y_l = net.x2_l
    y_u = net.x2_u

    #time starts at lower bound 0, ends at upper bound updated in slices
    t_l = 0

    #Pick IC/Mv Bdry/NSpde Condition Training Random Points in Numpy
    x_domain = np.random.uniform(low=x_l, high=x_u, size=(Domain_collocation, 1))
    y_domain = np.random.uniform(low=y_l, high=y_u, size=(Domain_collocation, 1))

    #Move to pytorch tensors
    x_domain = Variable(torch.from_numpy(x_domain).float(), requires_grad=True).to(device)
    y_domain = Variable(torch.from_numpy(y_domain).float(), requires_grad=True).to(device)

    #Pick IC Training t starting points to make tensor
    t_zero = Variable(torch.zeros_like(x_domain), requires_grad=True).to(device)

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#Pick BC Training Random Points in Numpy
x_Bdry = np.random.uniform(low=x_l, high=x_u, size=(Bdry_collocation,1))
y_Bdry = np.random.uniform(low=y_l, high=y_u, size=(Bdry_collocation,1))

#Move to pytorch tensors
x_Bdry= Variable(torch.from_numpy(x_Bdry).float(), requires_grad=True).to(device)
y_Bdry = Variable(torch.from_numpy(y_Bdry).float(), requires_grad=True).to(device)

##Pick pts to make tensor for No-Slip Boundary Condition
x_l_Bdry = Variable(x_l * torch.ones_like(x_Bdry), requires_grad=True).to(device)
x_u_Bdry = Variable(x_u * torch.ones_like(x_Bdry), requires_grad=True).to(device)
y_l_Bdry = Variable(y_l * torch.ones_like(x_Bdry), requires_grad=True).to(device)
y_u_Bdry = Variable(y_u * torch.ones_like(x_Bdry), requires_grad=True).to(device)

return x_domain, y_domain, t_zero, x_Bdry, y_Bdry, x_l_Bdry, x_u_Bdry, y_l_Bdry, y_u_Bdry

def tsliceTrainPts(net, Domain_collocation, Bdry_collocation, final_time):
    #Set of all the recorded t variable as base data for chasing during training

    #time starts at lower bound 0, ends at upper bound updated in slices
    t_l = net.t_l

    #Pick IC/Mv Bdry/NSpde Condition Training Random Points in Numpy
    t_domain = np.random.uniform(low=t_l, high=final_time, size=(Domain_collocation, 1))

    #Move to pytorch tensors
    t_domain = Variable(torch.from_numpy(t_domain).float(), requires_grad=True).to(device)

    #Pick IC Training t starting points to make tensor
    t_zero = Variable(torch.zeros_like(t_domain), requires_grad=True).to(device)

    #Pick BC Training Random Points in Numpy
    t_Bdry = np.random.uniform(low=t_l, high=final_time, size=(Bdry_collocation,1))

    #Move to pytorch tensors
    t_Bdry = Variable(torch.from_numpy(t_Bdry).float(), requires_grad=True).to(device)

    return t_domain, t_Bdry

def get_lr(optimizer):

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    for param_group in optimizer.param_groups:
        return param_group['lr']

def Create_IC_Parameters(x_domain, y_domain, t_zero, iterations, learning_rate, filename, record_loss, print_loss):
    ICnet = Net().to(device)

    IC_Only_training(ICnet, x_domain, y_domain, t_zero, iterations, learning_rate, record_loss, print_loss)

    torch.save(ICnet.state_dict(), filename)

def IC_Only_training(net, x_domain, y_domain, t_zero, iterations, learning_rate, record_loss, print_loss):
    device = torch.device("cuda:0" if torch.cuda.is_available() else "cpu")

    # Domain boundary in the range [0, 1]x[0, 2] and time in [0, 1].
    #x_l = net.x1_l
    #x_u = net.x1_u
    #y_l = net.x2_l
    #y_u = net.x2_u

    ##Define Collocation Points with Initial Condition
    #IC_collocation = collocation

    #define in numpy
    #x_IC = np.random.uniform(low=x_l, high=x_u, size=(IC_collocation,1))
    #y_IC = np.random.uniform(low=y_l, high=y_u, size=(IC_collocation,1))

    #move to pytorch tensors
    #input_x_IC = Variable(torch.from_numpy(x_IC).float(), requires_grad=True).to(device)
    #input_y_IC = Variable(torch.from_numpy(y_IC).float(), requires_grad=True).to(device)

    #learning rate update
    for g in net.optimizer.param_groups:
        g['lr'] = learning_rate

    #training loop
    epsilon_IC = [] #placeholder to track decreasing loss
    for epoch in range(1, iterations+1):

        # Resetting gradients to zero

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net.optimizer.zero_grad()

#Loss based on Initial Condition
loss = lossIC(net, x_domain, y_domain, t_zero)

loss.backward()

# Gradient Norm Clipping
torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=2, error_if_nonfinite=1e5)

#Gradient Value Clipping
#nn.utils.clip_grad_value_(net.parameters(), clip_value=1.0)

net.optimizer.step()

#Print Loss every 1000 Epochs
with torch.autograd.no_grad():

    if epoch%record_loss == 0:
        epsilon_IC = np.append(epsilon_IC, loss.cpu().detach().numpy())
    if epoch%print_loss == 0:
        print("Iteration:", epoch, "Initial Condition Loss:", loss.data)

np.savetxt('epsilon_IC.txt', epsilon_IC)

def NSpde_Only_training(net, x_domain, y_domain, t_zero, x_Bdry, y_Bdry, x_l_Bdry, x_u_Bdry, y_l_Bdry, y_u_Bdry):
    global epsilon
    device = torch.device("cuda:0" if torch.cuda.is_available() else "cpu")

    #learning rate update
    for g in net.optimizer.param_groups:
        g['lr'] = learning_rate

    for final_time in time_slices:

        with torch.autograd.no_grad():
            print("Current Final Time:", final_time, "Current Learning Rate: ", get_lr(net.optimizer))

        #indicator = False
        reset_regularization = 1000

        #Iterate over these points

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t_domain, t_Bdry = tsliceTrainPts(net, Domain_collocation = int(1000), Bdry_collocation = int(100))
for epoch in range(1, iterations+1):
    # Loss calculation based on partial differential equation (PDE)

    if epoch%reset_regularization != 0: #To detect error on forward/Backward, add hashtag on this v
    #with torch.autograd.detect_anomaly(): #use this line alternatively by deleting hashtag.

        ###Training steps
        # Resetting gradients to zero
        net.optimizer.zero_grad()

        ...

        #Loss based on Initial Condition
        mse_IC = lossIC(net, x_domain, y_domain, t_zero)
        # Gradient Norm Clipping
        torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_

        #Loss based on Boundary Condition (Containing No-Slip and Free-slip)
        mse_BC = lossBdry(net, x_Bdry, y_Bdry, t_Bdry, x_l_Bdry, x_u_Bdry, y_l_Bdry, y_u_Bdry)
        # Gradient Norm Clipping
        torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_
        ...

        #Loss based on PDE
        mse_NS = lossNSpde(net, x_domain, y_domain, t_domain)
        # Gradient Norm Clipping
        torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_
        ...

        #Loss based on Moving Boundary
        mse_MvBdry = lossMvBdry(net, x_domain, y_domain, t_domain)

        # Gradient Norm Clipping
        torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_

    if indicator == False:
        indicator = True
        IC_regular = mse_IC.detach()
        BC_regular = mse_BC.detach()
        pde_regular = mse_NS.detach()
        MvBdry_regular = mse_MvBdry.detach()

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        raw_loss = mse_MvBdry

        mse_IC = mse_IC #/IC_regular
        mse_BC = mse_BC #/BC_regular
        mse_NS = mse_NS #/pde_regular
        mse_MvBdry = mse_MvBdry #/MvBdry_regular
        ...

    #Combine all Loss functions
    loss = 10**7 * mse_NS
    # Gradient Norm Clipping
    #torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_

    loss.backward()

    #Gradient Value Clipping
    #nn.utils.clip_grad_value_(net.parameters(), clip_value=1.0)
    net.optimizer.step()

    #Print Loss every 1000 Epochs
    with torch.autograd.no_grad():
        if epoch%print_loss == 0:
            print("Iteration:", epoch, "\tTotal Loss:", loss.data)
            print("\tNspde Loss: ", mse_NS.data)

def training_loop(net, x_domain, y_domain, t_zero, x_Bdry, y_Bdry, x_l_Bdry, x_u_Bdry, y_l_Bdry, y_u_Bdry,
    global epsilon
    device = torch.device("cuda:0" if torch.cuda.is_available() else "cpu")

    #learning rate update
    for g in net.optimizer.param_groups:
        g['lr'] = learning_rate

    for final_time in time_slices:

        with torch.autograd.no_grad():
            print("Current Final Time:", final_time, "Current Learning Rate: ", get_lr(net.optimizer))

        indicator = False
        reset_regularization = 1000

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#Iterate over these points

t_domain, t_Bdry = tsliceTrainPts(net, Domain_collocation = int(1000), Bdry_collocation = int(100))
for epoch in range(1, iterations+1):
    # Loss calculation based on partial differential equation (PDE)

    if epoch%reset_regularization == 0:
        indicator = False

    if epoch%reset_regularization != 0: #To detect error on forward/Backward, add hashtag on this v
    #with torch.autograd.detect_anomaly(): #use this line alternatively by deleting hashtag.

        ###Training steps
        # Resetting gradients to zero
        net.optimizer.zero_grad()

        #Loss based on Initial Condition
        mse_IC = lossIC(net, x_domain, y_domain, t_zero)
        # Gradient Norm Clipping
        torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_n

        #Loss based on Boundary Condition (Containing No-Slip and Free-slip)
        mse_BC = lossBdry(net, x_Bdry, y_Bdry, t_Bdry, x_l_Bdry, x_u_Bdry, y_l_Bdry, y_u_Bdry)
        # Gradient Norm Clipping
        torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_n

        #Loss based on PDE
        mse_NS = lossNSpde(net, x_domain, y_domain, t_domain)
        # Gradient Norm Clipping
        torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_n

        #Loss based on Moving Boundary
        mse_MvBdry = lossMvBdry(net, x_domain, y_domain, t_domain)
        # Gradient Norm Clipping
        torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_n

    if indicator == False:
        indicator = True
        IC_regular = mse_IC.detach()
        BC_regular = mse_BC.detach()

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        pde_regular = mse_NS.detach()
        MvBdry_regular = mse_MvBdry.detach()

    raw_loss = IC_coefficient * mse_IC + mse_BC + mse_NS + mse_MvBdry

    mse_IC = mse_IC #/IC_regular
    mse_BC = mse_BC #/BC_regular
    mse_NS = mse_NS #/pde_regular
    mse_MvBdry = mse_MvBdry #/MvBdry_regular

    #Combine all Loss functions
    loss = mse_BC +mse_MvBdry + 10**5 *mse_IC + 10**5 * mse_NS #IC_coefficient *
    # Gradient Norm Clipping
    torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_n

    loss.backward()
    # Gradient Norm Clipping
    torch.nn.utils.clip_grad_norm_(net.parameters(), max_norm= 5*10**2, norm_type=1, error_if_nonf

    #Gradient Value Clipping
    #nn.utils.clip_grad_value_(net.parameters(), clip_value=1.0)
    net.optimizer.step()

    #Print Loss every 1000 Epochs
    with torch.autograd.no_grad():
        if epoch%record_loss == 0:
            epsilon = np.append(epsilon, raw_loss.cpu().detach().numpy())
        if epoch%print_loss == 0:
            print("Iteration:", epoch, "\tTotal Loss:", loss.data)
            print("IC Loss: ", mse_IC.data, "\tBC Loss: ", mse_BC.data, "\tNS PDE Loss: ", mse_NS.c

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create_network(True)
create_network(False)

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Training Only on the Initial Condition

Iteration: 1000 Initial Condition Loss: tensor(0.1800)
Iteration: 2000 Initial Condition Loss: tensor(0.0239)
Iteration: 3000 Initial Condition Loss: tensor(0.0136)
Iteration: 4000 Initial Condition Loss: tensor(0.0083)
Iteration: 5000 Initial Condition Loss: tensor(0.0053)
Iteration: 6000 Initial Condition Loss: tensor(0.0040)
Iteration: 7000 Initial Condition Loss: tensor(0.0029)
Iteration: 8000 Initial Condition Loss: tensor(0.0031)
Iteration: 9000 Initial Condition Loss: tensor(0.0020)
Iteration: 10000 Initial Condition Loss: tensor(0.0051)
Iteration: 11000 Initial Condition Loss: tensor(0.0027)
Iteration: 12000 Initial Condition Loss: tensor(0.0024)
Iteration: 13000 Initial Condition Loss: tensor(0.0022)
Iteration: 14000 Initial Condition Loss: tensor(0.0020)
Iteration: 15000 Initial Condition Loss: tensor(0.0017)
Iteration: 16000 Initial Condition Loss: tensor(0.0014)
Iteration: 17000 Initial Condition Loss: tensor(0.0011)
Iteration: 18000 Initial Condition Loss: tensor(0.0012)
Iteration: 19000 Initial Condition Loss: tensor(0.0009)
Iteration: 20000 Initial Condition Loss: tensor(0.0007)
Iteration: 21000 Initial Condition Loss: tensor(0.0005)
Iteration: 22000 Initial Condition Loss: tensor(0.0004)
Iteration: 23000 Initial Condition Loss: tensor(0.0021)
Iteration: 24000 Initial Condition Loss: tensor(0.0012)
Iteration: 25000 Initial Condition Loss: tensor(0.0009)
Iteration: 26000 Initial Condition Loss: tensor(0.0007)
Iteration: 27000 Initial Condition Loss: tensor(0.0007)
Iteration: 28000 Initial Condition Loss: tensor(0.0006)
Iteration: 29000 Initial Condition Loss: tensor(0.0005)
Iteration: 30000 Initial Condition Loss: tensor(0.0005)
IC Time: 272.25362491607666

Training Only on the NSpde Condition

Current Final Time: 0.01 Current Learning Rate: 0.001

Iteration: 1000 Total Loss: tensor(60.6514)
Nspde Loss: tensor(6.0651e-06)
Iteration: 2000 Total Loss: tensor(42.9121)
Nspde Loss: tensor(4.2912e-06)
Iteration: 3000 Total Loss: tensor(35.1449)
Nspde Loss: tensor(3.5145e-06)
Iteration: 4000 Total Loss: tensor(27.4386)
Nspde Loss: tensor(2.7439e-06)

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Iteration: 5000      Total Loss: tensor(20.1644)
      Nspde Loss: tensor(2.0164e-06)
Iteration: 6000      Total Loss: tensor(14.0154)
      Nspde Loss: tensor(1.4015e-06)
Iteration: 7000      Total Loss: tensor(9.1580)
      Nspde Loss: tensor(9.1580e-07)
Iteration: 8000      Total Loss: tensor(5.6980)
      Nspde Loss: tensor(5.6980e-07)
Iteration: 9000      Total Loss: tensor(3.7555)
      Nspde Loss: tensor(3.7555e-07)
Iteration: 10000     Total Loss: tensor(2.3526)
      Nspde Loss: tensor(2.3526e-07)
Iteration: 11000     Total Loss: tensor(1.5166)
      Nspde Loss: tensor(1.5166e-07)
Iteration: 12000     Total Loss: tensor(0.8232)
      Nspde Loss: tensor(8.2315e-08)
Iteration: 13000     Total Loss: tensor(0.8666)
      Nspde Loss: tensor(8.6661e-08)
Iteration: 14000     Total Loss: tensor(0.4110)
      Nspde Loss: tensor(4.1102e-08)
Iteration: 15000     Total Loss: tensor(0.1959)
      Nspde Loss: tensor(1.9592e-08)
Iteration: 16000     Total Loss: tensor(0.1580)
      Nspde Loss: tensor(1.5796e-08)
Iteration: 17000     Total Loss: tensor(0.0992)
      Nspde Loss: tensor(9.9210e-09)
Iteration: 18000     Total Loss: tensor(0.2611)
      Nspde Loss: tensor(2.6107e-08)
Iteration: 19000     Total Loss: tensor(0.0296)
      Nspde Loss: tensor(2.9594e-09)
Iteration: 20000     Total Loss: tensor(0.1262)
      Nspde Loss: tensor(1.2621e-08)
Current Final Time: 0.1 Current Learning Rate: 0.001
Iteration: 1000      Total Loss: tensor(0.0218)
      Nspde Loss: tensor(2.1841e-09)
Iteration: 2000      Total Loss: tensor(0.0373)
      Nspde Loss: tensor(3.7280e-09)
Iteration: 3000      Total Loss: tensor(0.0064)
      Nspde Loss: tensor(6.4209e-10)
Iteration: 4000      Total Loss: tensor(0.0078)
      Nspde Loss: tensor(7.7747e-10)
Iteration: 5000      Total Loss: tensor(0.0610)
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        Nspde Loss: tensor(6.0983e-09)
Iteration: 6000      Total Loss: tensor(0.1648)
        Nspde Loss: tensor(1.6481e-08)
Iteration: 7000      Total Loss: tensor(0.0858)
        Nspde Loss: tensor(8.5828e-09)
Iteration: 8000      Total Loss: tensor(0.0043)
        Nspde Loss: tensor(4.3148e-10)
Iteration: 9000      Total Loss: tensor(0.0071)
        Nspde Loss: tensor(7.0976e-10)
Iteration: 10000     Total Loss: tensor(0.0027)
        Nspde Loss: tensor(2.6976e-10)
Iteration: 11000     Total Loss: tensor(0.0036)
        Nspde Loss: tensor(3.5552e-10)
Iteration: 12000     Total Loss: tensor(0.0029)
        Nspde Loss: tensor(2.8646e-10)
Iteration: 13000     Total Loss: tensor(0.0083)
        Nspde Loss: tensor(8.3441e-10)
Iteration: 14000     Total Loss: tensor(0.0080)
        Nspde Loss: tensor(8.0331e-10)
Iteration: 15000     Total Loss: tensor(0.0032)
        Nspde Loss: tensor(3.1817e-10)
Iteration: 16000     Total Loss: tensor(0.0027)
        Nspde Loss: tensor(2.7195e-10)
Iteration: 17000     Total Loss: tensor(0.0042)
        Nspde Loss: tensor(4.2447e-10)
Iteration: 18000     Total Loss: tensor(0.0007)
        Nspde Loss: tensor(7.0754e-11)
Iteration: 19000     Total Loss: tensor(0.0010)
        Nspde Loss: tensor(1.0103e-10)
Iteration: 20000     Total Loss: tensor(0.0007)
        Nspde Loss: tensor(7.1005e-11)
MvBdry Time:      3494.7036638259888
Training PDE
Executing Pass 1
Current Final Time: 0.01 Current Learning Rate: 0.0001
Iteration: 200 Total Loss: tensor(2.9569e+12)
IC Loss: tensor(0.4106)      BC Loss: tensor(2.1422e-11)    NS PDE Loss: tensor(65.6630)    Mv Bdry Los
s: tensor(2.9569e+12)
Iteration: 400 Total Loss: tensor(1.6849e+12)
IC Loss: tensor(0.4085)      BC Loss: tensor(1.8745e-11)    NS PDE Loss: tensor(65.8026)    Mv Bdry Los
s: tensor(1.6849e+12)
Iteration: 600 Total Loss: tensor(1.2952e+12)

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IC Loss: tensor(0.4070)	BC Loss: tensor(1.5210e-11)	NS PDE Loss: tensor(65.4971)	Mv Bdry Los
s: tensor(1.2952e+12)			
Iteration: 800	Total Loss: tensor(9.3718e+11)		
IC Loss: tensor(0.4070)	BC Loss: tensor(1.4378e-11)	NS PDE Loss: tensor(65.3524)	Mv Bdry Los
s: tensor(9.3717e+11)			
Iteration: 1000	Total Loss: tensor(9.0097e+11)		
IC Loss: tensor(0.4070)	BC Loss: tensor(1.1667e-11)	NS PDE Loss: tensor(65.2272)	Mv Bdry Los
s: tensor(9.0097e+11)			
Iteration: 1200	Total Loss: tensor(8.0366e+11)		
IC Loss: tensor(0.4067)	BC Loss: tensor(8.9055e-12)	NS PDE Loss: tensor(65.1599)	Mv Bdry Los
s: tensor(8.0366e+11)			
Iteration: 1400	Total Loss: tensor(6.0617e+11)		
IC Loss: tensor(0.4077)	BC Loss: tensor(7.7248e-12)	NS PDE Loss: tensor(64.8764)	Mv Bdry Los
s: tensor(6.0616e+11)			
Iteration: 1600	Total Loss: tensor(5.4437e+11)		
IC Loss: tensor(0.4082)	BC Loss: tensor(4.8937e-12)	NS PDE Loss: tensor(64.7506)	Mv Bdry Los
s: tensor(5.4437e+11)			
Iteration: 1800	Total Loss: tensor(7.0342e+11)		
IC Loss: tensor(0.4089)	BC Loss: tensor(4.1357e-12)	NS PDE Loss: tensor(64.6244)	Mv Bdry Los
s: tensor(7.0342e+11)			
Iteration: 2000	Total Loss: tensor(4.8040e+11)		
IC Loss: tensor(0.4092)	BC Loss: tensor(2.6867e-12)	NS PDE Loss: tensor(64.4513)	Mv Bdry Los
s: tensor(4.8039e+11)			
Iteration: 2200	Total Loss: tensor(6.7543e+11)		
IC Loss: tensor(0.4110)	BC Loss: tensor(1.9635e-12)	NS PDE Loss: tensor(64.5512)	Mv Bdry Los
s: tensor(6.7542e+11)			
Iteration: 2400	Total Loss: tensor(5.5023e+11)		
IC Loss: tensor(0.4113)	BC Loss: tensor(1.2579e-12)	NS PDE Loss: tensor(64.6081)	Mv Bdry Los
s: tensor(5.5022e+11)			
Iteration: 2600	Total Loss: tensor(4.8628e+11)		
IC Loss: tensor(0.4122)	BC Loss: tensor(1.2051e-12)	NS PDE Loss: tensor(64.5408)	Mv Bdry Los
s: tensor(4.8627e+11)			
Iteration: 2800	Total Loss: tensor(5.8399e+11)		
IC Loss: tensor(0.4138)	BC Loss: tensor(1.1124e-12)	NS PDE Loss: tensor(64.4241)	Mv Bdry Los
s: tensor(5.8398e+11)			
Iteration: 3000	Total Loss: tensor(4.0947e+11)		
IC Loss: tensor(0.4144)	BC Loss: tensor(1.3325e-12)	NS PDE Loss: tensor(64.4154)	Mv Bdry Los
s: tensor(4.0947e+11)			
Iteration: 3200	Total Loss: tensor(3.2653e+11)		
IC Loss: tensor(0.4148)	BC Loss: tensor(2.1594e-12)	NS PDE Loss: tensor(64.4376)	Mv Bdry Los
s: tensor(3.2652e+11)			
Iteration: 3400	Total Loss: tensor(2.9285e+11)		

IC Loss: tensor(0.4155)	BC Loss: tensor(4.0030e-12)	NS PDE Loss: tensor(64.5347)	Mv Bdry Los
s: tensor(2.9284e+11)			
Iteration: 3600	Total Loss: tensor(2.7374e+11)		
IC Loss: tensor(0.4160)	BC Loss: tensor(6.3015e-12)	NS PDE Loss: tensor(64.6243)	Mv Bdry Los
s: tensor(2.7374e+11)			
Iteration: 3800	Total Loss: tensor(2.4979e+11)		
IC Loss: tensor(0.4167)	BC Loss: tensor(7.6091e-12)	NS PDE Loss: tensor(64.7320)	Mv Bdry Los
s: tensor(2.4978e+11)			
Iteration: 4000	Total Loss: tensor(2.3173e+11)		
IC Loss: tensor(0.4174)	BC Loss: tensor(1.0311e-11)	NS PDE Loss: tensor(64.8806)	Mv Bdry Los
s: tensor(2.3173e+11)			
Iteration: 4200	Total Loss: tensor(2.0393e+11)		
IC Loss: tensor(0.4185)	BC Loss: tensor(1.7848e-11)	NS PDE Loss: tensor(65.0325)	Mv Bdry Los
s: tensor(2.0393e+11)			
Iteration: 4400	Total Loss: tensor(1.8340e+11)		
IC Loss: tensor(0.4194)	BC Loss: tensor(2.0080e-11)	NS PDE Loss: tensor(65.1628)	Mv Bdry Los
s: tensor(1.8340e+11)			
Iteration: 4600	Total Loss: tensor(1.6734e+11)		
IC Loss: tensor(0.4202)	BC Loss: tensor(2.3970e-11)	NS PDE Loss: tensor(65.3014)	Mv Bdry Los
s: tensor(1.6733e+11)			
Iteration: 4800	Total Loss: tensor(1.5304e+11)		
IC Loss: tensor(0.4212)	BC Loss: tensor(2.8845e-11)	NS PDE Loss: tensor(65.3954)	Mv Bdry Los
s: tensor(1.5303e+11)			
Iteration: 5000	Total Loss: tensor(1.4609e+11)		
IC Loss: tensor(0.4222)	BC Loss: tensor(3.3060e-11)	NS PDE Loss: tensor(65.4339)	Mv Bdry Los
s: tensor(1.4608e+11)			
Iteration: 5200	Total Loss: tensor(1.3687e+11)		
IC Loss: tensor(0.4229)	BC Loss: tensor(4.3778e-11)	NS PDE Loss: tensor(65.4841)	Mv Bdry Los
s: tensor(1.3687e+11)			
Iteration: 5400	Total Loss: tensor(1.2981e+11)		
IC Loss: tensor(0.4235)	BC Loss: tensor(5.2999e-11)	NS PDE Loss: tensor(65.5340)	Mv Bdry Los
s: tensor(1.2980e+11)			
Iteration: 5600	Total Loss: tensor(1.2300e+11)		
IC Loss: tensor(0.4240)	BC Loss: tensor(6.0135e-11)	NS PDE Loss: tensor(65.5513)	Mv Bdry Los
s: tensor(1.2299e+11)			
Iteration: 5800	Total Loss: tensor(1.1685e+11)		
IC Loss: tensor(0.4244)	BC Loss: tensor(7.3824e-11)	NS PDE Loss: tensor(65.5589)	Mv Bdry Los
s: tensor(1.1684e+11)			
Iteration: 6000	Total Loss: tensor(1.1314e+11)		
IC Loss: tensor(0.4250)	BC Loss: tensor(8.7009e-11)	NS PDE Loss: tensor(65.5506)	Mv Bdry Los
s: tensor(1.1313e+11)			
Iteration: 6200	Total Loss: tensor(9.7785e+10)		

IC Loss: tensor(0.4254)	BC Loss: tensor(9.3300e-11)	NS PDE Loss: tensor(65.5512)	Mv Bdry Los
s: tensor(9.7778e+10)			
Iteration: 6400	Total Loss: tensor(8.4534e+10)		
IC Loss: tensor(0.4250)	BC Loss: tensor(9.8084e-11)	NS PDE Loss: tensor(65.4892)	Mv Bdry Los
s: tensor(8.4528e+10)			
Iteration: 6600	Total Loss: tensor(7.4817e+10)		
IC Loss: tensor(0.4252)	BC Loss: tensor(1.1002e-10)	NS PDE Loss: tensor(65.4547)	Mv Bdry Los
s: tensor(7.4810e+10)			
Iteration: 6800	Total Loss: tensor(6.8553e+10)		
IC Loss: tensor(0.4257)	BC Loss: tensor(1.1805e-10)	NS PDE Loss: tensor(65.4009)	Mv Bdry Los
s: tensor(6.8546e+10)			
Iteration: 7000	Total Loss: tensor(6.6095e+10)		
IC Loss: tensor(0.4264)	BC Loss: tensor(1.3139e-10)	NS PDE Loss: tensor(65.3505)	Mv Bdry Los
s: tensor(6.6088e+10)			
Iteration: 7200	Total Loss: tensor(6.1792e+10)		
IC Loss: tensor(0.4269)	BC Loss: tensor(1.4507e-10)	NS PDE Loss: tensor(65.3110)	Mv Bdry Los
s: tensor(6.1785e+10)			
Iteration: 7400	Total Loss: tensor(5.9821e+10)		
IC Loss: tensor(0.4275)	BC Loss: tensor(1.8045e-10)	NS PDE Loss: tensor(65.2766)	Mv Bdry Los
s: tensor(5.9814e+10)			
Iteration: 7600	Total Loss: tensor(5.7983e+10)		
IC Loss: tensor(0.4280)	BC Loss: tensor(1.8311e-10)	NS PDE Loss: tensor(65.2479)	Mv Bdry Los
s: tensor(5.7976e+10)			
Iteration: 7800	Total Loss: tensor(5.6867e+10)		
IC Loss: tensor(0.4285)	BC Loss: tensor(2.0471e-10)	NS PDE Loss: tensor(65.2196)	Mv Bdry Los
s: tensor(5.6860e+10)			
Iteration: 8000	Total Loss: tensor(5.7748e+10)		
IC Loss: tensor(0.4289)	BC Loss: tensor(2.1697e-10)	NS PDE Loss: tensor(65.1951)	Mv Bdry Los
s: tensor(5.7741e+10)			
Iteration: 8200	Total Loss: tensor(5.5492e+10)		
IC Loss: tensor(0.4293)	BC Loss: tensor(2.2420e-10)	NS PDE Loss: tensor(65.1737)	Mv Bdry Los
s: tensor(5.5486e+10)			
Iteration: 8400	Total Loss: tensor(5.4953e+10)		
IC Loss: tensor(0.4296)	BC Loss: tensor(2.3547e-10)	NS PDE Loss: tensor(65.1539)	Mv Bdry Los
s: tensor(5.4946e+10)			
Iteration: 8600	Total Loss: tensor(5.4375e+10)		
IC Loss: tensor(0.4300)	BC Loss: tensor(2.3286e-10)	NS PDE Loss: tensor(65.1356)	Mv Bdry Los
s: tensor(5.4368e+10)			
Iteration: 8800	Total Loss: tensor(5.4296e+10)		
IC Loss: tensor(0.4304)	BC Loss: tensor(2.4175e-10)	NS PDE Loss: tensor(65.1193)	Mv Bdry Los
s: tensor(5.4289e+10)			
Iteration: 9000	Total Loss: tensor(5.5747e+10)		

IC Loss: tensor(0.4309)	BC Loss: tensor(2.5948e-10)	NS PDE Loss: tensor(65.1051)	Mv Bdry Los
s: tensor(5.5740e+10)			
Iteration: 9200	Total Loss: tensor(5.4233e+10)		
IC Loss: tensor(0.4313)	BC Loss: tensor(2.6689e-10)	NS PDE Loss: tensor(65.0909)	Mv Bdry Los
s: tensor(5.4227e+10)			
Iteration: 9400	Total Loss: tensor(5.4598e+10)		
IC Loss: tensor(0.4318)	BC Loss: tensor(2.7759e-10)	NS PDE Loss: tensor(65.0796)	Mv Bdry Los
s: tensor(5.4592e+10)			
Iteration: 9600	Total Loss: tensor(5.4482e+10)		
IC Loss: tensor(0.4323)	BC Loss: tensor(2.8905e-10)	NS PDE Loss: tensor(65.0681)	Mv Bdry Los
s: tensor(5.4476e+10)			
Iteration: 9800	Total Loss: tensor(5.3856e+10)		
IC Loss: tensor(0.4329)	BC Loss: tensor(2.9646e-10)	NS PDE Loss: tensor(65.0605)	Mv Bdry Los
s: tensor(5.3849e+10)			
Iteration: 10000	Total Loss: tensor(5.5364e+10)		
IC Loss: tensor(0.4334)	BC Loss: tensor(3.0589e-10)	NS PDE Loss: tensor(65.0594)	Mv Bdry Los
s: tensor(5.5358e+10)			
Iteration: 10200	Total Loss: tensor(5.2543e+10)		
IC Loss: tensor(0.4337)	BC Loss: tensor(3.0185e-10)	NS PDE Loss: tensor(65.0476)	Mv Bdry Los
s: tensor(5.2537e+10)			
Iteration: 10400	Total Loss: tensor(5.1324e+10)		
IC Loss: tensor(0.4339)	BC Loss: tensor(3.0241e-10)	NS PDE Loss: tensor(65.0300)	Mv Bdry Los
s: tensor(5.1318e+10)			
Iteration: 10600	Total Loss: tensor(4.9534e+10)		
IC Loss: tensor(0.4341)	BC Loss: tensor(2.9157e-10)	NS PDE Loss: tensor(65.0096)	Mv Bdry Los
s: tensor(4.9527e+10)			
Iteration: 10800	Total Loss: tensor(4.7724e+10)		
IC Loss: tensor(0.4342)	BC Loss: tensor(2.9890e-10)	NS PDE Loss: tensor(64.9892)	Mv Bdry Los
s: tensor(4.7718e+10)			
Iteration: 11000	Total Loss: tensor(4.7665e+10)		
IC Loss: tensor(0.4343)	BC Loss: tensor(3.0311e-10)	NS PDE Loss: tensor(64.9708)	Mv Bdry Los
s: tensor(4.7659e+10)			
Iteration: 11200	Total Loss: tensor(4.4005e+10)		
IC Loss: tensor(0.4343)	BC Loss: tensor(3.2295e-10)	NS PDE Loss: tensor(64.9511)	Mv Bdry Los
s: tensor(4.3998e+10)			
Iteration: 11400	Total Loss: tensor(4.1939e+10)		
IC Loss: tensor(0.4343)	BC Loss: tensor(3.1944e-10)	NS PDE Loss: tensor(64.9315)	Mv Bdry Los
s: tensor(4.1932e+10)			
Iteration: 11600	Total Loss: tensor(4.0101e+10)		
IC Loss: tensor(0.4343)	BC Loss: tensor(2.9894e-10)	NS PDE Loss: tensor(64.9015)	Mv Bdry Los
s: tensor(4.0094e+10)			
Iteration: 11800	Total Loss: tensor(3.8946e+10)		

IC Loss: tensor(0.4345)	BC Loss: tensor(3.0419e-10)	NS PDE Loss: tensor(64.8640)	Mv Bdry Los
s: tensor(3.8939e+10)			
Iteration: 12000	Total Loss: tensor(4.0150e+10)		
IC Loss: tensor(0.4347)	BC Loss: tensor(3.0749e-10)	NS PDE Loss: tensor(64.8320)	Mv Bdry Los
s: tensor(4.0143e+10)			
Iteration: 12200	Total Loss: tensor(3.8205e+10)		
IC Loss: tensor(0.4350)	BC Loss: tensor(3.0074e-10)	NS PDE Loss: tensor(64.7678)	Mv Bdry Los
s: tensor(3.8199e+10)			
Iteration: 12400	Total Loss: tensor(3.7845e+10)		
IC Loss: tensor(0.4355)	BC Loss: tensor(2.9614e-10)	NS PDE Loss: tensor(64.6705)	Mv Bdry Los
s: tensor(3.7839e+10)			
Iteration: 12600	Total Loss: tensor(3.7061e+10)		
IC Loss: tensor(0.4362)	BC Loss: tensor(3.2794e-10)	NS PDE Loss: tensor(64.5677)	Mv Bdry Los
s: tensor(3.7055e+10)			
Iteration: 12800	Total Loss: tensor(3.6091e+10)		
IC Loss: tensor(0.4373)	BC Loss: tensor(3.3188e-10)	NS PDE Loss: tensor(64.4134)	Mv Bdry Los
s: tensor(3.6085e+10)			
Iteration: 13000	Total Loss: tensor(3.6040e+10)		
IC Loss: tensor(0.4387)	BC Loss: tensor(3.6222e-10)	NS PDE Loss: tensor(64.1195)	Mv Bdry Los
s: tensor(3.6033e+10)			
Iteration: 13200	Total Loss: tensor(3.3097e+10)		
IC Loss: tensor(0.4404)	BC Loss: tensor(3.6148e-10)	NS PDE Loss: tensor(63.8008)	Mv Bdry Los
s: tensor(3.3091e+10)			
Iteration: 13400	Total Loss: tensor(2.9755e+10)		
IC Loss: tensor(0.4431)	BC Loss: tensor(3.5942e-10)	NS PDE Loss: tensor(63.4168)	Mv Bdry Los
s: tensor(2.9748e+10)			
Iteration: 13600	Total Loss: tensor(2.5268e+10)		
IC Loss: tensor(0.4477)	BC Loss: tensor(3.6932e-10)	NS PDE Loss: tensor(63.1016)	Mv Bdry Los
s: tensor(2.5262e+10)			
Iteration: 13800	Total Loss: tensor(2.1090e+10)		
IC Loss: tensor(0.4540)	BC Loss: tensor(3.8470e-10)	NS PDE Loss: tensor(63.0074)	Mv Bdry Los
s: tensor(2.1083e+10)			
Iteration: 14000	Total Loss: tensor(2.1556e+10)		
IC Loss: tensor(0.4591)	BC Loss: tensor(3.7245e-10)	NS PDE Loss: tensor(63.0611)	Mv Bdry Los
s: tensor(2.1549e+10)			
Iteration: 14200	Total Loss: tensor(2.2133e+10)		
IC Loss: tensor(0.4643)	BC Loss: tensor(3.4631e-10)	NS PDE Loss: tensor(63.0922)	Mv Bdry Los
s: tensor(2.2126e+10)			
Iteration: 14400	Total Loss: tensor(2.2319e+10)		
IC Loss: tensor(0.4690)	BC Loss: tensor(3.3442e-10)	NS PDE Loss: tensor(63.0512)	Mv Bdry Los
s: tensor(2.2313e+10)			
Iteration: 14600	Total Loss: tensor(2.1075e+10)		

IC Loss: tensor(0.4739)	BC Loss: tensor(3.1277e-10)	NS PDE Loss: tensor(62.9724)	Mv Bdry Los
s: tensor(2.1069e+10)			
Iteration: 14800	Total Loss: tensor(1.9430e+10)		
IC Loss: tensor(0.4764)	BC Loss: tensor(3.1315e-10)	NS PDE Loss: tensor(62.9318)	Mv Bdry Los
s: tensor(1.9424e+10)			
Iteration: 15000	Total Loss: tensor(1.9719e+10)		
IC Loss: tensor(0.4771)	BC Loss: tensor(2.8009e-10)	NS PDE Loss: tensor(62.9024)	Mv Bdry Los
s: tensor(1.9713e+10)			
Iteration: 15200	Total Loss: tensor(1.8274e+10)		
IC Loss: tensor(0.4772)	BC Loss: tensor(2.7553e-10)	NS PDE Loss: tensor(62.8823)	Mv Bdry Los
s: tensor(1.8268e+10)			
Iteration: 15400	Total Loss: tensor(1.7911e+10)		
IC Loss: tensor(0.4773)	BC Loss: tensor(2.6091e-10)	NS PDE Loss: tensor(62.8492)	Mv Bdry Los
s: tensor(1.7905e+10)			
Iteration: 15600	Total Loss: tensor(1.7465e+10)		
IC Loss: tensor(0.4773)	BC Loss: tensor(2.3997e-10)	NS PDE Loss: tensor(62.8138)	Mv Bdry Los
s: tensor(1.7459e+10)			
Iteration: 15800	Total Loss: tensor(1.7234e+10)		
IC Loss: tensor(0.4773)	BC Loss: tensor(2.3977e-10)	NS PDE Loss: tensor(62.7864)	Mv Bdry Los
s: tensor(1.7228e+10)			
Iteration: 16000	Total Loss: tensor(1.7817e+10)		
IC Loss: tensor(0.4774)	BC Loss: tensor(2.3969e-10)	NS PDE Loss: tensor(62.7662)	Mv Bdry Los
s: tensor(1.7810e+10)			
Iteration: 16200	Total Loss: tensor(1.6256e+10)		
IC Loss: tensor(0.4774)	BC Loss: tensor(2.4215e-10)	NS PDE Loss: tensor(62.7508)	Mv Bdry Los
s: tensor(1.6250e+10)			
Iteration: 16400	Total Loss: tensor(1.6023e+10)		
IC Loss: tensor(0.4774)	BC Loss: tensor(2.5059e-10)	NS PDE Loss: tensor(62.7359)	Mv Bdry Los
s: tensor(1.6017e+10)			
Iteration: 16600	Total Loss: tensor(1.6198e+10)		
IC Loss: tensor(0.4774)	BC Loss: tensor(2.3917e-10)	NS PDE Loss: tensor(62.7256)	Mv Bdry Los
s: tensor(1.6192e+10)			
Iteration: 16800	Total Loss: tensor(1.5799e+10)		
IC Loss: tensor(0.4774)	BC Loss: tensor(1.9831e-10)	NS PDE Loss: tensor(62.7190)	Mv Bdry Los
s: tensor(1.5793e+10)			
Iteration: 17000	Total Loss: tensor(1.6681e+10)		
IC Loss: tensor(0.4775)	BC Loss: tensor(2.1035e-10)	NS PDE Loss: tensor(62.7139)	Mv Bdry Los
s: tensor(1.6675e+10)			
Iteration: 17200	Total Loss: tensor(1.5057e+10)		
IC Loss: tensor(0.4774)	BC Loss: tensor(2.1540e-10)	NS PDE Loss: tensor(62.7117)	Mv Bdry Los
s: tensor(1.5051e+10)			
Iteration: 17400	Total Loss: tensor(1.5271e+10)		

IC Loss: tensor(0.4775)	BC Loss: tensor(2.1080e-10)	NS PDE Loss: tensor(62.7106)	Mv Bdry Los
s: tensor(1.5265e+10)			
Iteration: 17600	Total Loss: tensor(1.5042e+10)		
IC Loss: tensor(0.4775)	BC Loss: tensor(1.8524e-10)	NS PDE Loss: tensor(62.7110)	Mv Bdry Los
s: tensor(1.5036e+10)			
Iteration: 17800	Total Loss: tensor(1.5155e+10)		
IC Loss: tensor(0.4775)	BC Loss: tensor(2.0034e-10)	NS PDE Loss: tensor(62.7133)	Mv Bdry Los
s: tensor(1.5148e+10)			
Iteration: 18000	Total Loss: tensor(1.6361e+10)		
IC Loss: tensor(0.4775)	BC Loss: tensor(2.0432e-10)	NS PDE Loss: tensor(62.7173)	Mv Bdry Los
s: tensor(1.6355e+10)			
Iteration: 18200	Total Loss: tensor(1.5085e+10)		
IC Loss: tensor(0.4774)	BC Loss: tensor(2.0390e-10)	NS PDE Loss: tensor(62.7219)	Mv Bdry Los
s: tensor(1.5078e+10)			
Iteration: 18400	Total Loss: tensor(1.5374e+10)		
IC Loss: tensor(0.4774)	BC Loss: tensor(1.7562e-10)	NS PDE Loss: tensor(62.7285)	Mv Bdry Los
s: tensor(1.5367e+10)			
Iteration: 18600	Total Loss: tensor(1.5653e+10)		
IC Loss: tensor(0.4774)	BC Loss: tensor(1.7270e-10)	NS PDE Loss: tensor(62.7328)	Mv Bdry Los
s: tensor(1.5646e+10)			
Iteration: 18800	Total Loss: tensor(1.5681e+10)		
IC Loss: tensor(0.4774)	BC Loss: tensor(1.6980e-10)	NS PDE Loss: tensor(62.7348)	Mv Bdry Los
s: tensor(1.5675e+10)			
Iteration: 19000	Total Loss: tensor(1.6251e+10)		
IC Loss: tensor(0.4775)	BC Loss: tensor(1.6698e-10)	NS PDE Loss: tensor(62.7380)	Mv Bdry Los
s: tensor(1.6245e+10)			
Iteration: 19200	Total Loss: tensor(1.5307e+10)		
IC Loss: tensor(0.4765)	BC Loss: tensor(1.5880e-10)	NS PDE Loss: tensor(62.7420)	Mv Bdry Los
s: tensor(1.5301e+10)			
Iteration: 19400	Total Loss: tensor(1.4906e+10)		
IC Loss: tensor(0.4764)	BC Loss: tensor(1.6077e-10)	NS PDE Loss: tensor(62.7467)	Mv Bdry Los
s: tensor(1.4900e+10)			
Iteration: 19600	Total Loss: tensor(1.5091e+10)		
IC Loss: tensor(0.4764)	BC Loss: tensor(1.5607e-10)	NS PDE Loss: tensor(62.7491)	Mv Bdry Los
s: tensor(1.5085e+10)			
Iteration: 19800	Total Loss: tensor(1.4899e+10)		
IC Loss: tensor(0.4764)	BC Loss: tensor(1.5584e-10)	NS PDE Loss: tensor(62.7494)	Mv Bdry Los
s: tensor(1.4893e+10)			
Iteration: 20000	Total Loss: tensor(1.5950e+10)		
IC Loss: tensor(0.4764)	BC Loss: tensor(1.5503e-10)	NS PDE Loss: tensor(62.7520)	Mv Bdry Los
s: tensor(1.5944e+10)			
Current Final Time: 0.1 Current Learning Rate: 0.0001			

Iteration: 200	Total Loss: tensor(1.4095e+12)		
IC Loss: tensor(0.4856)	BC Loss: tensor(1.0915e-10)	NS PDE Loss: tensor(65.4771)	Mv Bdry Los
s: tensor(1.4095e+12)			
Iteration: 400	Total Loss: tensor(7.9181e+11)		
IC Loss: tensor(0.4761)	BC Loss: tensor(9.0181e-11)	NS PDE Loss: tensor(65.4465)	Mv Bdry Los
s: tensor(7.9180e+11)			
Iteration: 600	Total Loss: tensor(6.0227e+11)		
IC Loss: tensor(0.4701)	BC Loss: tensor(7.8848e-11)	NS PDE Loss: tensor(65.4350)	Mv Bdry Los
s: tensor(6.0226e+11)			
Iteration: 800	Total Loss: tensor(4.7488e+11)		
IC Loss: tensor(0.4654)	BC Loss: tensor(8.6566e-11)	NS PDE Loss: tensor(65.2530)	Mv Bdry Los
s: tensor(4.7488e+11)			
Iteration: 1000	Total Loss: tensor(4.1206e+11)		
IC Loss: tensor(0.4593)	BC Loss: tensor(8.0913e-11)	NS PDE Loss: tensor(65.1441)	Mv Bdry Los
s: tensor(4.1205e+11)			
Iteration: 1200	Total Loss: tensor(3.6885e+11)		
IC Loss: tensor(0.4549)	BC Loss: tensor(8.1855e-11)	NS PDE Loss: tensor(65.0451)	Mv Bdry Los
s: tensor(3.6885e+11)			
Iteration: 1400	Total Loss: tensor(3.4586e+11)		
IC Loss: tensor(0.4530)	BC Loss: tensor(8.1291e-11)	NS PDE Loss: tensor(65.0005)	Mv Bdry Los
s: tensor(3.4586e+11)			
Iteration: 1600	Total Loss: tensor(3.3261e+11)		
IC Loss: tensor(0.4515)	BC Loss: tensor(8.2202e-11)	NS PDE Loss: tensor(64.9391)	Mv Bdry Los
s: tensor(3.3260e+11)			
Iteration: 1800	Total Loss: tensor(3.2571e+11)		
IC Loss: tensor(0.4506)	BC Loss: tensor(8.0299e-11)	NS PDE Loss: tensor(64.9041)	Mv Bdry Los
s: tensor(3.2570e+11)			
Iteration: 2000	Total Loss: tensor(3.1704e+11)		
IC Loss: tensor(0.4489)	BC Loss: tensor(8.5499e-11)	NS PDE Loss: tensor(64.8780)	Mv Bdry Los
s: tensor(3.1704e+11)			
Iteration: 2200	Total Loss: tensor(3.0487e+11)		
IC Loss: tensor(0.4490)	BC Loss: tensor(8.5866e-11)	NS PDE Loss: tensor(64.8707)	Mv Bdry Los
s: tensor(3.0487e+11)			
Iteration: 2400	Total Loss: tensor(3.3631e+11)		
IC Loss: tensor(0.4509)	BC Loss: tensor(8.4168e-11)	NS PDE Loss: tensor(64.9131)	Mv Bdry Los
s: tensor(3.3630e+11)			
Iteration: 2600	Total Loss: tensor(3.4283e+11)		
IC Loss: tensor(0.4484)	BC Loss: tensor(9.3671e-11)	NS PDE Loss: tensor(64.8645)	Mv Bdry Los
s: tensor(3.4283e+11)			
Iteration: 2800	Total Loss: tensor(2.9611e+11)		
IC Loss: tensor(0.4485)	BC Loss: tensor(8.9753e-11)	NS PDE Loss: tensor(64.8237)	Mv Bdry Los
s: tensor(2.9611e+11)			

Iteration: 3000	Total Loss: tensor(2.9586e+11)		
IC Loss: tensor(0.4481)	BC Loss: tensor(8.4249e-11)	NS PDE Loss: tensor(64.8076)	Mv Bdry Los
s: tensor(2.9586e+11)			
Iteration: 3200	Total Loss: tensor(2.8356e+11)		
IC Loss: tensor(0.4480)	BC Loss: tensor(8.0068e-11)	NS PDE Loss: tensor(64.7942)	Mv Bdry Los
s: tensor(2.8355e+11)			
Iteration: 3400	Total Loss: tensor(2.8431e+11)		
IC Loss: tensor(0.4476)	BC Loss: tensor(7.7369e-11)	NS PDE Loss: tensor(64.7688)	Mv Bdry Los
s: tensor(2.8431e+11)			
Iteration: 3600	Total Loss: tensor(2.7537e+11)		
IC Loss: tensor(0.4472)	BC Loss: tensor(8.0327e-11)	NS PDE Loss: tensor(64.7321)	Mv Bdry Los
s: tensor(2.7537e+11)			
Iteration: 3800	Total Loss: tensor(3.0947e+11)		
IC Loss: tensor(0.4468)	BC Loss: tensor(7.7144e-11)	NS PDE Loss: tensor(64.6861)	Mv Bdry Los
s: tensor(3.0946e+11)			
Iteration: 4000	Total Loss: tensor(2.6685e+11)		
IC Loss: tensor(0.4463)	BC Loss: tensor(7.5763e-11)	NS PDE Loss: tensor(64.6468)	Mv Bdry Los
s: tensor(2.6684e+11)			
Iteration: 4200	Total Loss: tensor(3.3959e+11)		
IC Loss: tensor(0.4451)	BC Loss: tensor(7.4956e-11)	NS PDE Loss: tensor(64.6220)	Mv Bdry Los
s: tensor(3.3958e+11)			
Iteration: 4400	Total Loss: tensor(3.2611e+11)		
IC Loss: tensor(0.4447)	BC Loss: tensor(7.6272e-11)	NS PDE Loss: tensor(64.5952)	Mv Bdry Los
s: tensor(3.2611e+11)			
Iteration: 4600	Total Loss: tensor(2.5361e+11)		
IC Loss: tensor(0.4451)	BC Loss: tensor(7.8677e-11)	NS PDE Loss: tensor(64.5515)	Mv Bdry Los
s: tensor(2.5360e+11)			
Iteration: 4800	Total Loss: tensor(2.4386e+11)		
IC Loss: tensor(0.4449)	BC Loss: tensor(7.4728e-11)	NS PDE Loss: tensor(64.5150)	Mv Bdry Los
s: tensor(2.4386e+11)			
Iteration: 5000	Total Loss: tensor(2.5218e+11)		
IC Loss: tensor(0.4453)	BC Loss: tensor(7.9387e-11)	NS PDE Loss: tensor(64.4949)	Mv Bdry Los
s: tensor(2.5218e+11)			
Iteration: 5200	Total Loss: tensor(2.4706e+11)		
IC Loss: tensor(0.4454)	BC Loss: tensor(8.2279e-11)	NS PDE Loss: tensor(64.4846)	Mv Bdry Los
s: tensor(2.4705e+11)			
Iteration: 5400	Total Loss: tensor(2.3479e+11)		
IC Loss: tensor(0.4455)	BC Loss: tensor(7.5514e-11)	NS PDE Loss: tensor(64.4755)	Mv Bdry Los
s: tensor(2.3478e+11)			
Iteration: 5600	Total Loss: tensor(2.2657e+11)		
IC Loss: tensor(0.4455)	BC Loss: tensor(7.7429e-11)	NS PDE Loss: tensor(64.4730)	Mv Bdry Los
s: tensor(2.2657e+11)			

Iteration: 5800	Total Loss: tensor(2.2921e+11)		
IC Loss: tensor(0.4452)	BC Loss: tensor(8.6827e-11)	NS PDE Loss: tensor(64.4982)	Mv Bdry Los
s: tensor(2.2920e+11)			
Iteration: 6000	Total Loss: tensor(2.0922e+11)		
IC Loss: tensor(0.4457)	BC Loss: tensor(8.4566e-11)	NS PDE Loss: tensor(64.4831)	Mv Bdry Los
s: tensor(2.0921e+11)			
Iteration: 6200	Total Loss: tensor(2.2389e+11)		
IC Loss: tensor(0.4467)	BC Loss: tensor(8.4180e-11)	NS PDE Loss: tensor(64.4667)	Mv Bdry Los
s: tensor(2.2389e+11)			
Iteration: 6400	Total Loss: tensor(2.0634e+11)		
IC Loss: tensor(0.4467)	BC Loss: tensor(7.7942e-11)	NS PDE Loss: tensor(64.4414)	Mv Bdry Los
s: tensor(2.0633e+11)			
Iteration: 6600	Total Loss: tensor(2.0103e+11)		
IC Loss: tensor(0.4469)	BC Loss: tensor(8.3092e-11)	NS PDE Loss: tensor(64.4335)	Mv Bdry Los
s: tensor(2.0103e+11)			
Iteration: 6800	Total Loss: tensor(1.9547e+11)		
IC Loss: tensor(0.4469)	BC Loss: tensor(7.8616e-11)	NS PDE Loss: tensor(64.4323)	Mv Bdry Los
s: tensor(1.9546e+11)			
Iteration: 7000	Total Loss: tensor(1.8371e+11)		
IC Loss: tensor(0.4465)	BC Loss: tensor(8.3940e-11)	NS PDE Loss: tensor(64.4433)	Mv Bdry Los
s: tensor(1.8370e+11)			
Iteration: 7200	Total Loss: tensor(1.7285e+11)		
IC Loss: tensor(0.4465)	BC Loss: tensor(8.7908e-11)	NS PDE Loss: tensor(64.4266)	Mv Bdry Los
s: tensor(1.7284e+11)			
Iteration: 7400	Total Loss: tensor(1.5277e+11)		
IC Loss: tensor(0.4460)	BC Loss: tensor(9.3072e-11)	NS PDE Loss: tensor(64.4613)	Mv Bdry Los
s: tensor(1.5277e+11)			
Iteration: 7600	Total Loss: tensor(1.3300e+11)		
IC Loss: tensor(0.4449)	BC Loss: tensor(9.7363e-11)	NS PDE Loss: tensor(64.5136)	Mv Bdry Los
s: tensor(1.3299e+11)			
Iteration: 7800	Total Loss: tensor(1.1813e+11)		
IC Loss: tensor(0.4442)	BC Loss: tensor(1.0187e-10)	NS PDE Loss: tensor(64.5156)	Mv Bdry Los
s: tensor(1.1812e+11)			
Iteration: 8000	Total Loss: tensor(1.0306e+11)		
IC Loss: tensor(0.4434)	BC Loss: tensor(1.0050e-10)	NS PDE Loss: tensor(64.5558)	Mv Bdry Los
s: tensor(1.0305e+11)			
Iteration: 8200	Total Loss: tensor(8.1492e+10)		
IC Loss: tensor(0.4401)	BC Loss: tensor(1.0250e-10)	NS PDE Loss: tensor(64.5506)	Mv Bdry Los
s: tensor(8.1486e+10)			
Iteration: 8400	Total Loss: tensor(6.9385e+10)		
IC Loss: tensor(0.4390)	BC Loss: tensor(1.0010e-10)	NS PDE Loss: tensor(64.5241)	Mv Bdry Los
s: tensor(6.9379e+10)			

Iteration: 8600	Total Loss: tensor(6.1262e+10)		
IC Loss: tensor(0.4384)	BC Loss: tensor(8.5575e-11)	NS PDE Loss: tensor(64.5156)	Mv Bdry Los
s: tensor(6.1255e+10)			
Iteration: 8800	Total Loss: tensor(5.2340e+10)		
IC Loss: tensor(0.4378)	BC Loss: tensor(8.3894e-11)	NS PDE Loss: tensor(64.5198)	Mv Bdry Los
s: tensor(5.2333e+10)			
Iteration: 9000	Total Loss: tensor(4.7963e+10)		
IC Loss: tensor(0.4379)	BC Loss: tensor(8.5297e-11)	NS PDE Loss: tensor(64.5279)	Mv Bdry Los
s: tensor(4.7956e+10)			
Iteration: 9200	Total Loss: tensor(4.9927e+10)		
IC Loss: tensor(0.4373)	BC Loss: tensor(7.6861e-11)	NS PDE Loss: tensor(64.6009)	Mv Bdry Los
s: tensor(4.9921e+10)			
Iteration: 9400	Total Loss: tensor(4.7395e+10)		
IC Loss: tensor(0.4363)	BC Loss: tensor(7.9288e-11)	NS PDE Loss: tensor(64.5894)	Mv Bdry Los
s: tensor(4.7389e+10)			
Iteration: 9600	Total Loss: tensor(4.1904e+10)		
IC Loss: tensor(0.4355)	BC Loss: tensor(8.4800e-11)	NS PDE Loss: tensor(64.6116)	Mv Bdry Los
s: tensor(4.1897e+10)			
Iteration: 9800	Total Loss: tensor(3.8734e+10)		
IC Loss: tensor(0.4351)	BC Loss: tensor(8.8726e-11)	NS PDE Loss: tensor(64.6180)	Mv Bdry Los
s: tensor(3.8728e+10)			
Iteration: 10000	Total Loss: tensor(2.7673e+10)		
IC Loss: tensor(0.4344)	BC Loss: tensor(9.6051e-11)	NS PDE Loss: tensor(64.6176)	Mv Bdry Los
s: tensor(2.7666e+10)			
Iteration: 10200	Total Loss: tensor(3.2424e+10)		
IC Loss: tensor(0.4351)	BC Loss: tensor(1.0479e-10)	NS PDE Loss: tensor(64.6234)	Mv Bdry Los
s: tensor(3.2418e+10)			
Iteration: 10400	Total Loss: tensor(2.5739e+10)		
IC Loss: tensor(0.4351)	BC Loss: tensor(1.0186e-10)	NS PDE Loss: tensor(64.6370)	Mv Bdry Los
s: tensor(2.5733e+10)			
Iteration: 10600	Total Loss: tensor(2.5041e+10)		
IC Loss: tensor(0.4353)	BC Loss: tensor(9.9968e-11)	NS PDE Loss: tensor(64.6244)	Mv Bdry Los
s: tensor(2.5035e+10)			
Iteration: 10800	Total Loss: tensor(2.3331e+10)		
IC Loss: tensor(0.4355)	BC Loss: tensor(1.0281e-10)	NS PDE Loss: tensor(64.6110)	Mv Bdry Los
s: tensor(2.3325e+10)			
Iteration: 11000	Total Loss: tensor(2.5047e+10)		
IC Loss: tensor(0.4362)	BC Loss: tensor(1.1205e-10)	NS PDE Loss: tensor(64.6295)	Mv Bdry Los
s: tensor(2.5041e+10)			
Iteration: 11200	Total Loss: tensor(2.5829e+10)		
IC Loss: tensor(0.4363)	BC Loss: tensor(1.1290e-10)	NS PDE Loss: tensor(64.6200)	Mv Bdry Los
s: tensor(2.5822e+10)			

Iteration: 11400	Total Loss: tensor(2.2599e+10)		
IC Loss: tensor(0.4365)	BC Loss: tensor(1.1346e-10)	NS PDE Loss: tensor(64.6112)	Mv Bdry Los
s: tensor(2.2592e+10)			
Iteration: 11600	Total Loss: tensor(2.4296e+10)		
IC Loss: tensor(0.4367)	BC Loss: tensor(1.1718e-10)	NS PDE Loss: tensor(64.6039)	Mv Bdry Los
s: tensor(2.4290e+10)			
Iteration: 11800	Total Loss: tensor(2.2449e+10)		
IC Loss: tensor(0.4367)	BC Loss: tensor(1.2122e-10)	NS PDE Loss: tensor(64.5973)	Mv Bdry Los
s: tensor(2.2443e+10)			
Iteration: 12000	Total Loss: tensor(2.0471e+10)		
IC Loss: tensor(0.4364)	BC Loss: tensor(1.3191e-10)	NS PDE Loss: tensor(64.5548)	Mv Bdry Los
s: tensor(2.0465e+10)			
Iteration: 12200	Total Loss: tensor(1.8032e+10)		
IC Loss: tensor(0.4364)	BC Loss: tensor(1.3538e-10)	NS PDE Loss: tensor(64.5645)	Mv Bdry Los
s: tensor(1.8026e+10)			
Iteration: 12400	Total Loss: tensor(2.0004e+10)		
IC Loss: tensor(0.4370)	BC Loss: tensor(1.3829e-10)	NS PDE Loss: tensor(64.5765)	Mv Bdry Los
s: tensor(1.9998e+10)			
Iteration: 12600	Total Loss: tensor(2.0129e+10)		
IC Loss: tensor(0.4371)	BC Loss: tensor(1.3317e-10)	NS PDE Loss: tensor(64.5741)	Mv Bdry Los
s: tensor(2.0122e+10)			
Iteration: 12800	Total Loss: tensor(2.0650e+10)		
IC Loss: tensor(0.4373)	BC Loss: tensor(1.3694e-10)	NS PDE Loss: tensor(64.5730)	Mv Bdry Los
s: tensor(2.0644e+10)			
Iteration: 13000	Total Loss: tensor(1.6744e+10)		
IC Loss: tensor(0.4366)	BC Loss: tensor(1.3767e-10)	NS PDE Loss: tensor(64.5278)	Mv Bdry Los
s: tensor(1.6737e+10)			
Iteration: 13200	Total Loss: tensor(2.5098e+10)		
IC Loss: tensor(0.4367)	BC Loss: tensor(1.3460e-10)	NS PDE Loss: tensor(64.5246)	Mv Bdry Los
s: tensor(2.5092e+10)			
Iteration: 13400	Total Loss: tensor(1.8551e+10)		
IC Loss: tensor(0.4368)	BC Loss: tensor(1.4012e-10)	NS PDE Loss: tensor(64.5143)	Mv Bdry Los
s: tensor(1.8545e+10)			
Iteration: 13600	Total Loss: tensor(1.8739e+10)		
IC Loss: tensor(0.4369)	BC Loss: tensor(1.3287e-10)	NS PDE Loss: tensor(64.5072)	Mv Bdry Los
s: tensor(1.8732e+10)			
Iteration: 13800	Total Loss: tensor(2.0100e+10)		
IC Loss: tensor(0.4369)	BC Loss: tensor(1.2921e-10)	NS PDE Loss: tensor(64.4965)	Mv Bdry Los
s: tensor(2.0093e+10)			
Iteration: 14000	Total Loss: tensor(1.5589e+10)		
IC Loss: tensor(0.4374)	BC Loss: tensor(1.3084e-10)	NS PDE Loss: tensor(64.5260)	Mv Bdry Los
s: tensor(1.5583e+10)			

Iteration: 14200	Total Loss: tensor(1.6387e+10)		
IC Loss: tensor(0.4376)	BC Loss: tensor(1.3054e-10)	NS PDE Loss: tensor(64.5201)	Mv Bdry Los
s: tensor(1.6380e+10)			
Iteration: 14400	Total Loss: tensor(1.4570e+10)		
IC Loss: tensor(0.4375)	BC Loss: tensor(1.3394e-10)	NS PDE Loss: tensor(64.5080)	Mv Bdry Los
s: tensor(1.4563e+10)			
Iteration: 14600	Total Loss: tensor(1.5900e+10)		
IC Loss: tensor(0.4372)	BC Loss: tensor(1.3904e-10)	NS PDE Loss: tensor(64.4776)	Mv Bdry Los
s: tensor(1.5894e+10)			
Iteration: 14800	Total Loss: tensor(1.7707e+10)		
IC Loss: tensor(0.4371)	BC Loss: tensor(1.5444e-10)	NS PDE Loss: tensor(64.4551)	Mv Bdry Los
s: tensor(1.7700e+10)			
Iteration: 15000	Total Loss: tensor(1.4818e+10)		
IC Loss: tensor(0.4377)	BC Loss: tensor(1.5083e-10)	NS PDE Loss: tensor(64.4876)	Mv Bdry Los
s: tensor(1.4812e+10)			
Iteration: 15200	Total Loss: tensor(1.3456e+10)		
IC Loss: tensor(0.4369)	BC Loss: tensor(1.5645e-10)	NS PDE Loss: tensor(64.4218)	Mv Bdry Los
s: tensor(1.3449e+10)			
Iteration: 15400	Total Loss: tensor(1.8596e+10)		
IC Loss: tensor(0.4364)	BC Loss: tensor(1.5310e-10)	NS PDE Loss: tensor(64.4053)	Mv Bdry Los
s: tensor(1.8589e+10)			
Iteration: 15600	Total Loss: tensor(1.4959e+10)		
IC Loss: tensor(0.4375)	BC Loss: tensor(1.6062e-10)	NS PDE Loss: tensor(64.4286)	Mv Bdry Los
s: tensor(1.4952e+10)			
Iteration: 15800	Total Loss: tensor(1.5339e+10)		
IC Loss: tensor(0.4374)	BC Loss: tensor(1.6499e-10)	NS PDE Loss: tensor(64.4277)	Mv Bdry Los
s: tensor(1.5333e+10)			
Iteration: 16000	Total Loss: tensor(1.6807e+10)		
IC Loss: tensor(0.4374)	BC Loss: tensor(1.6060e-10)	NS PDE Loss: tensor(64.4227)	Mv Bdry Los
s: tensor(1.6801e+10)			
Iteration: 16200	Total Loss: tensor(1.3595e+10)		
IC Loss: tensor(0.4375)	BC Loss: tensor(1.7536e-10)	NS PDE Loss: tensor(64.4210)	Mv Bdry Los
s: tensor(1.3589e+10)			
Iteration: 16400	Total Loss: tensor(1.7794e+10)		
IC Loss: tensor(0.4376)	BC Loss: tensor(1.7897e-10)	NS PDE Loss: tensor(64.4303)	Mv Bdry Los
s: tensor(1.7787e+10)			
Iteration: 16600	Total Loss: tensor(1.4447e+10)		
IC Loss: tensor(0.4380)	BC Loss: tensor(1.8303e-10)	NS PDE Loss: tensor(64.4370)	Mv Bdry Los
s: tensor(1.4441e+10)			
Iteration: 16800	Total Loss: tensor(1.5333e+10)		
IC Loss: tensor(0.4378)	BC Loss: tensor(1.7113e-10)	NS PDE Loss: tensor(64.4296)	Mv Bdry Los
s: tensor(1.5326e+10)			

Iteration: 17000	Total Loss: tensor(1.3737e+10)		
IC Loss: tensor(0.4371)	BC Loss: tensor(1.6596e-10)	NS PDE Loss: tensor(64.3732)	Mv Bdry Los
s: tensor(1.3730e+10)			
Iteration: 17200	Total Loss: tensor(1.7775e+10)		
IC Loss: tensor(0.4375)	BC Loss: tensor(1.6281e-10)	NS PDE Loss: tensor(64.3868)	Mv Bdry Los
s: tensor(1.7769e+10)			
Iteration: 17400	Total Loss: tensor(1.7639e+10)		
IC Loss: tensor(0.4376)	BC Loss: tensor(1.7385e-10)	NS PDE Loss: tensor(64.3865)	Mv Bdry Los
s: tensor(1.7632e+10)			
Iteration: 17600	Total Loss: tensor(1.6663e+10)		
IC Loss: tensor(0.4376)	BC Loss: tensor(1.7159e-10)	NS PDE Loss: tensor(64.3836)	Mv Bdry Los
s: tensor(1.6656e+10)			
Iteration: 17800	Total Loss: tensor(1.5636e+10)		
IC Loss: tensor(0.4378)	BC Loss: tensor(1.8443e-10)	NS PDE Loss: tensor(64.3824)	Mv Bdry Los
s: tensor(1.5629e+10)			
Iteration: 18000	Total Loss: tensor(1.4162e+10)		
IC Loss: tensor(0.4377)	BC Loss: tensor(1.9357e-10)	NS PDE Loss: tensor(64.3726)	Mv Bdry Los
s: tensor(1.4155e+10)			
Iteration: 18200	Total Loss: tensor(1.4208e+10)		
IC Loss: tensor(0.4382)	BC Loss: tensor(1.8396e-10)	NS PDE Loss: tensor(64.3842)	Mv Bdry Los
s: tensor(1.4202e+10)			
Iteration: 18400	Total Loss: tensor(1.3759e+10)		
IC Loss: tensor(0.4384)	BC Loss: tensor(1.8397e-10)	NS PDE Loss: tensor(64.3896)	Mv Bdry Los
s: tensor(1.3753e+10)			
Iteration: 18600	Total Loss: tensor(1.5410e+10)		
IC Loss: tensor(0.4377)	BC Loss: tensor(1.8100e-10)	NS PDE Loss: tensor(64.3799)	Mv Bdry Los
s: tensor(1.5404e+10)			
Iteration: 18800	Total Loss: tensor(1.2359e+10)		
IC Loss: tensor(0.4362)	BC Loss: tensor(1.6504e-10)	NS PDE Loss: tensor(64.3306)	Mv Bdry Los
s: tensor(1.2353e+10)			
Iteration: 19000	Total Loss: tensor(1.3222e+10)		
IC Loss: tensor(0.4383)	BC Loss: tensor(1.6938e-10)	NS PDE Loss: tensor(64.3719)	Mv Bdry Los
s: tensor(1.3215e+10)			
Iteration: 19200	Total Loss: tensor(1.5140e+10)		
IC Loss: tensor(0.4369)	BC Loss: tensor(1.6598e-10)	NS PDE Loss: tensor(64.3419)	Mv Bdry Los
s: tensor(1.5134e+10)			
Iteration: 19400	Total Loss: tensor(1.2455e+10)		
IC Loss: tensor(0.4382)	BC Loss: tensor(1.6018e-10)	NS PDE Loss: tensor(64.3536)	Mv Bdry Los
s: tensor(1.2449e+10)			
Iteration: 19600	Total Loss: tensor(1.2772e+10)		
IC Loss: tensor(0.4385)	BC Loss: tensor(1.5465e-10)	NS PDE Loss: tensor(64.3713)	Mv Bdry Los
s: tensor(1.2765e+10)			

Iteration: 19800	Total Loss: tensor(1.4097e+10)		
IC Loss: tensor(0.4385)	BC Loss: tensor(1.4813e-10)	NS PDE Loss: tensor(64.3711)	Mv Bdry Los
s: tensor(1.4091e+10)			
Iteration: 20000	Total Loss: tensor(1.3254e+10)		
IC Loss: tensor(0.4379)	BC Loss: tensor(1.4763e-10)	NS PDE Loss: tensor(64.3457)	Mv Bdry Los
s: tensor(1.3248e+10)			
Executing Pass 2			
Current Final Time: 0.01 Current Learning Rate: 1e-05			
Iteration: 200	Total Loss: tensor(4.8379e+11)		
IC Loss: tensor(0.4293)	BC Loss: tensor(1.4542e-10)	NS PDE Loss: tensor(64.4840)	Mv Bdry Los
s: tensor(4.8378e+11)			
Iteration: 400	Total Loss: tensor(2.9002e+11)		
IC Loss: tensor(0.4308)	BC Loss: tensor(1.2676e-10)	NS PDE Loss: tensor(64.4179)	Mv Bdry Los
s: tensor(2.9002e+11)			
Iteration: 600	Total Loss: tensor(2.2294e+11)		
IC Loss: tensor(0.4315)	BC Loss: tensor(1.1685e-10)	NS PDE Loss: tensor(64.3726)	Mv Bdry Los
s: tensor(2.2293e+11)			
Iteration: 800	Total Loss: tensor(1.8817e+11)		
IC Loss: tensor(0.4325)	BC Loss: tensor(1.0737e-10)	NS PDE Loss: tensor(64.3152)	Mv Bdry Los
s: tensor(1.8817e+11)			
Iteration: 1000	Total Loss: tensor(1.6332e+11)		
IC Loss: tensor(0.4336)	BC Loss: tensor(1.0155e-10)	NS PDE Loss: tensor(64.2861)	Mv Bdry Los
s: tensor(1.6332e+11)			
Iteration: 1200	Total Loss: tensor(1.4443e+11)		
IC Loss: tensor(0.4343)	BC Loss: tensor(9.4340e-11)	NS PDE Loss: tensor(64.2855)	Mv Bdry Los
s: tensor(1.4442e+11)			
Iteration: 1400	Total Loss: tensor(1.2924e+11)		
IC Loss: tensor(0.4351)	BC Loss: tensor(9.0260e-11)	NS PDE Loss: tensor(64.3211)	Mv Bdry Los
s: tensor(1.2923e+11)			
Iteration: 1600	Total Loss: tensor(1.1550e+11)		
IC Loss: tensor(0.4361)	BC Loss: tensor(8.5414e-11)	NS PDE Loss: tensor(64.3327)	Mv Bdry Los
s: tensor(1.1549e+11)			
Iteration: 1800	Total Loss: tensor(1.0516e+11)		
IC Loss: tensor(0.4372)	BC Loss: tensor(8.0159e-11)	NS PDE Loss: tensor(64.3047)	Mv Bdry Los
s: tensor(1.0515e+11)			
Iteration: 2000	Total Loss: tensor(9.6668e+10)		
IC Loss: tensor(0.4376)	BC Loss: tensor(7.2337e-11)	NS PDE Loss: tensor(64.3173)	Mv Bdry Los
s: tensor(9.6662e+10)			
Iteration: 2200	Total Loss: tensor(8.9810e+10)		
IC Loss: tensor(0.4380)	BC Loss: tensor(6.3890e-11)	NS PDE Loss: tensor(64.3300)	Mv Bdry Los
s: tensor(8.9804e+10)			
Iteration: 2400	Total Loss: tensor(8.4084e+10)		

IC Loss: tensor(0.4382)	BC Loss: tensor(5.7622e-11)	NS PDE Loss: tensor(64.3223)	Mv Bdry Los
s: tensor(8.4077e+10)			
Iteration: 2600	Total Loss: tensor(7.9017e+10)		
IC Loss: tensor(0.4384)	BC Loss: tensor(5.2521e-11)	NS PDE Loss: tensor(64.2995)	Mv Bdry Los
s: tensor(7.9011e+10)			
Iteration: 2800	Total Loss: tensor(7.4492e+10)		
IC Loss: tensor(0.4386)	BC Loss: tensor(4.9079e-11)	NS PDE Loss: tensor(64.2784)	Mv Bdry Los
s: tensor(7.4486e+10)			
Iteration: 3000	Total Loss: tensor(7.0829e+10)		
IC Loss: tensor(0.4388)	BC Loss: tensor(4.8964e-11)	NS PDE Loss: tensor(64.2621)	Mv Bdry Los
s: tensor(7.0822e+10)			
Iteration: 3200	Total Loss: tensor(6.7643e+10)		
IC Loss: tensor(0.4390)	BC Loss: tensor(4.5315e-11)	NS PDE Loss: tensor(64.2525)	Mv Bdry Los
s: tensor(6.7636e+10)			
Iteration: 3400	Total Loss: tensor(6.4736e+10)		
IC Loss: tensor(0.4392)	BC Loss: tensor(4.1709e-11)	NS PDE Loss: tensor(64.2459)	Mv Bdry Los
s: tensor(6.4729e+10)			
Iteration: 3600	Total Loss: tensor(6.2312e+10)		
IC Loss: tensor(0.4396)	BC Loss: tensor(3.9953e-11)	NS PDE Loss: tensor(64.2309)	Mv Bdry Los
s: tensor(6.2305e+10)			
Iteration: 3800	Total Loss: tensor(5.9933e+10)		
IC Loss: tensor(0.4399)	BC Loss: tensor(3.5783e-11)	NS PDE Loss: tensor(64.2146)	Mv Bdry Los
s: tensor(5.9926e+10)			
Iteration: 4000	Total Loss: tensor(5.7703e+10)		
IC Loss: tensor(0.4401)	BC Loss: tensor(3.3519e-11)	NS PDE Loss: tensor(64.2011)	Mv Bdry Los
s: tensor(5.7696e+10)			
Iteration: 4200	Total Loss: tensor(5.5770e+10)		
IC Loss: tensor(0.4404)	BC Loss: tensor(3.0392e-11)	NS PDE Loss: tensor(64.1858)	Mv Bdry Los
s: tensor(5.5763e+10)			
Iteration: 4400	Total Loss: tensor(5.3940e+10)		
IC Loss: tensor(0.4406)	BC Loss: tensor(2.8324e-11)	NS PDE Loss: tensor(64.1715)	Mv Bdry Los
s: tensor(5.3933e+10)			
Iteration: 4600	Total Loss: tensor(5.2170e+10)		
IC Loss: tensor(0.4408)	BC Loss: tensor(2.6585e-11)	NS PDE Loss: tensor(64.1588)	Mv Bdry Los
s: tensor(5.2163e+10)			
Iteration: 4800	Total Loss: tensor(5.0613e+10)		
IC Loss: tensor(0.4409)	BC Loss: tensor(2.3728e-11)	NS PDE Loss: tensor(64.1501)	Mv Bdry Los
s: tensor(5.0606e+10)			
Iteration: 5000	Total Loss: tensor(5.0134e+10)		
IC Loss: tensor(0.4412)	BC Loss: tensor(2.3133e-11)	NS PDE Loss: tensor(64.1340)	Mv Bdry Los
s: tensor(5.0128e+10)			
Iteration: 5200	Total Loss: tensor(4.9443e+10)		

IC Loss: tensor(0.4412)	BC Loss: tensor(2.3305e-11)	NS PDE Loss: tensor(64.1314)	Mv Bdry Los
s: tensor(4.9436e+10)			
Iteration: 5400	Total Loss: tensor(4.8834e+10)		
IC Loss: tensor(0.4413)	BC Loss: tensor(2.3498e-11)	NS PDE Loss: tensor(64.1295)	Mv Bdry Los
s: tensor(4.8828e+10)			
Iteration: 5600	Total Loss: tensor(4.8263e+10)		
IC Loss: tensor(0.4413)	BC Loss: tensor(2.2568e-11)	NS PDE Loss: tensor(64.1265)	Mv Bdry Los
s: tensor(4.8256e+10)			
Iteration: 5800	Total Loss: tensor(4.7687e+10)		
IC Loss: tensor(0.4413)	BC Loss: tensor(2.2280e-11)	NS PDE Loss: tensor(64.1248)	Mv Bdry Los
s: tensor(4.7681e+10)			
Iteration: 6000	Total Loss: tensor(4.7442e+10)		
IC Loss: tensor(0.4414)	BC Loss: tensor(2.1904e-11)	NS PDE Loss: tensor(64.1222)	Mv Bdry Los
s: tensor(4.7436e+10)			
Iteration: 6200	Total Loss: tensor(4.6754e+10)		
IC Loss: tensor(0.4414)	BC Loss: tensor(2.1502e-11)	NS PDE Loss: tensor(64.1224)	Mv Bdry Los
s: tensor(4.6748e+10)			
Iteration: 6400	Total Loss: tensor(4.6179e+10)		
IC Loss: tensor(0.4414)	BC Loss: tensor(2.1595e-11)	NS PDE Loss: tensor(64.1216)	Mv Bdry Los
s: tensor(4.6173e+10)			
Iteration: 6600	Total Loss: tensor(4.5507e+10)		
IC Loss: tensor(0.4414)	BC Loss: tensor(2.1512e-11)	NS PDE Loss: tensor(64.1234)	Mv Bdry Los
s: tensor(4.5501e+10)			
Iteration: 6800	Total Loss: tensor(4.4909e+10)		
IC Loss: tensor(0.4415)	BC Loss: tensor(2.1649e-11)	NS PDE Loss: tensor(64.1161)	Mv Bdry Los
s: tensor(4.4902e+10)			
Iteration: 7000	Total Loss: tensor(4.4493e+10)		
IC Loss: tensor(0.4415)	BC Loss: tensor(2.1562e-11)	NS PDE Loss: tensor(64.1017)	Mv Bdry Los
s: tensor(4.4487e+10)			
Iteration: 7200	Total Loss: tensor(4.3627e+10)		
IC Loss: tensor(0.4416)	BC Loss: tensor(2.1222e-11)	NS PDE Loss: tensor(64.0883)	Mv Bdry Los
s: tensor(4.3621e+10)			
Iteration: 7400	Total Loss: tensor(4.3008e+10)		
IC Loss: tensor(0.4416)	BC Loss: tensor(2.1122e-11)	NS PDE Loss: tensor(64.0752)	Mv Bdry Los
s: tensor(4.3002e+10)			
Iteration: 7600	Total Loss: tensor(4.2518e+10)		
IC Loss: tensor(0.4417)	BC Loss: tensor(2.0922e-11)	NS PDE Loss: tensor(64.0623)	Mv Bdry Los
s: tensor(4.2511e+10)			
Iteration: 7800	Total Loss: tensor(4.1856e+10)		
IC Loss: tensor(0.4414)	BC Loss: tensor(2.1170e-11)	NS PDE Loss: tensor(64.0514)	Mv Bdry Los
s: tensor(4.1849e+10)			
Iteration: 8000	Total Loss: tensor(4.1391e+10)		

IC Loss: tensor(0.4415)	BC Loss: tensor(2.1157e-11)	NS PDE Loss: tensor(64.0414)	Mv Bdry Los
s: tensor(4.1384e+10)			
Iteration: 8200	Total Loss: tensor(4.0546e+10)		
IC Loss: tensor(0.4416)	BC Loss: tensor(2.0687e-11)	NS PDE Loss: tensor(64.0360)	Mv Bdry Los
s: tensor(4.0540e+10)			
Iteration: 8400	Total Loss: tensor(4.0037e+10)		
IC Loss: tensor(0.4416)	BC Loss: tensor(2.0383e-11)	NS PDE Loss: tensor(64.0311)	Mv Bdry Los
s: tensor(4.0030e+10)			
Iteration: 8600	Total Loss: tensor(3.9623e+10)		
IC Loss: tensor(0.4416)	BC Loss: tensor(2.0086e-11)	NS PDE Loss: tensor(64.0282)	Mv Bdry Los
s: tensor(3.9617e+10)			
Iteration: 8800	Total Loss: tensor(3.9034e+10)		
IC Loss: tensor(0.4416)	BC Loss: tensor(1.9750e-11)	NS PDE Loss: tensor(64.0258)	Mv Bdry Los
s: tensor(3.9027e+10)			
Iteration: 9000	Total Loss: tensor(3.8873e+10)		
IC Loss: tensor(0.4416)	BC Loss: tensor(1.9500e-11)	NS PDE Loss: tensor(64.0229)	Mv Bdry Los
s: tensor(3.8867e+10)			
Iteration: 9200	Total Loss: tensor(3.8198e+10)		
IC Loss: tensor(0.4415)	BC Loss: tensor(1.9473e-11)	NS PDE Loss: tensor(64.0228)	Mv Bdry Los
s: tensor(3.8191e+10)			
Iteration: 9400	Total Loss: tensor(3.7711e+10)		
IC Loss: tensor(0.4414)	BC Loss: tensor(1.9916e-11)	NS PDE Loss: tensor(64.0149)	Mv Bdry Los
s: tensor(3.7705e+10)			
Iteration: 9600	Total Loss: tensor(3.7246e+10)		
IC Loss: tensor(0.4414)	BC Loss: tensor(1.9342e-11)	NS PDE Loss: tensor(64.0048)	Mv Bdry Los
s: tensor(3.7239e+10)			
Iteration: 9800	Total Loss: tensor(3.6783e+10)		
IC Loss: tensor(0.4417)	BC Loss: tensor(1.9586e-11)	NS PDE Loss: tensor(63.9941)	Mv Bdry Los
s: tensor(3.6776e+10)			
Iteration: 10000	Total Loss: tensor(3.6550e+10)		
IC Loss: tensor(0.4417)	BC Loss: tensor(1.9694e-11)	NS PDE Loss: tensor(63.9835)	Mv Bdry Los
s: tensor(3.6544e+10)			
Iteration: 10200	Total Loss: tensor(3.5975e+10)		
IC Loss: tensor(0.4416)	BC Loss: tensor(1.8876e-11)	NS PDE Loss: tensor(63.9735)	Mv Bdry Los
s: tensor(3.5969e+10)			
Iteration: 10400	Total Loss: tensor(3.5514e+10)		
IC Loss: tensor(0.4415)	BC Loss: tensor(1.8883e-11)	NS PDE Loss: tensor(63.9639)	Mv Bdry Los
s: tensor(3.5508e+10)			
Iteration: 10600	Total Loss: tensor(3.4969e+10)		
IC Loss: tensor(0.4415)	BC Loss: tensor(1.8393e-11)	NS PDE Loss: tensor(63.9547)	Mv Bdry Los
s: tensor(3.4963e+10)			
Iteration: 10800	Total Loss: tensor(3.4624e+10)		

IC Loss: tensor(0.4414)	BC Loss: tensor(1.8608e-11)	NS PDE Loss: tensor(63.9451)	Mv Bdry Los
s: tensor(3.4617e+10)			
Iteration: 11000	Total Loss: tensor(3.4561e+10)		
IC Loss: tensor(0.4413)	BC Loss: tensor(1.8058e-11)	NS PDE Loss: tensor(63.9358)	Mv Bdry Los
s: tensor(3.4554e+10)			
Iteration: 11200	Total Loss: tensor(3.3881e+10)		
IC Loss: tensor(0.4413)	BC Loss: tensor(1.7845e-11)	NS PDE Loss: tensor(63.9287)	Mv Bdry Los
s: tensor(3.3875e+10)			
Iteration: 11400	Total Loss: tensor(3.3579e+10)		
IC Loss: tensor(0.4412)	BC Loss: tensor(1.8094e-11)	NS PDE Loss: tensor(63.9215)	Mv Bdry Los
s: tensor(3.3573e+10)			
Iteration: 11600	Total Loss: tensor(3.3088e+10)		
IC Loss: tensor(0.4412)	BC Loss: tensor(1.7757e-11)	NS PDE Loss: tensor(63.9130)	Mv Bdry Los
s: tensor(3.3081e+10)			
Iteration: 11800	Total Loss: tensor(3.2701e+10)		
IC Loss: tensor(0.4411)	BC Loss: tensor(1.8107e-11)	NS PDE Loss: tensor(63.9073)	Mv Bdry Los
s: tensor(3.2694e+10)			
Iteration: 12000	Total Loss: tensor(3.2610e+10)		
IC Loss: tensor(0.4411)	BC Loss: tensor(1.8267e-11)	NS PDE Loss: tensor(63.9003)	Mv Bdry Los
s: tensor(3.2604e+10)			
Iteration: 12200	Total Loss: tensor(3.1965e+10)		
IC Loss: tensor(0.4410)	BC Loss: tensor(1.8217e-11)	NS PDE Loss: tensor(63.8945)	Mv Bdry Los
s: tensor(3.1959e+10)			
Iteration: 12400	Total Loss: tensor(3.1684e+10)		
IC Loss: tensor(0.4410)	BC Loss: tensor(1.8086e-11)	NS PDE Loss: tensor(63.8889)	Mv Bdry Los
s: tensor(3.1678e+10)			
Iteration: 12600	Total Loss: tensor(3.1304e+10)		
IC Loss: tensor(0.4409)	BC Loss: tensor(1.7448e-11)	NS PDE Loss: tensor(63.8825)	Mv Bdry Los
s: tensor(3.1297e+10)			
Iteration: 12800	Total Loss: tensor(3.0806e+10)		
IC Loss: tensor(0.4409)	BC Loss: tensor(1.7569e-11)	NS PDE Loss: tensor(63.8774)	Mv Bdry Los
s: tensor(3.0800e+10)			
Iteration: 13000	Total Loss: tensor(3.0989e+10)		
IC Loss: tensor(0.4408)	BC Loss: tensor(1.7886e-11)	NS PDE Loss: tensor(63.8712)	Mv Bdry Los
s: tensor(3.0982e+10)			
Iteration: 13200	Total Loss: tensor(3.0224e+10)		
IC Loss: tensor(0.4408)	BC Loss: tensor(1.7989e-11)	NS PDE Loss: tensor(63.8643)	Mv Bdry Los
s: tensor(3.0218e+10)			
Iteration: 13400	Total Loss: tensor(2.9829e+10)		
IC Loss: tensor(0.4407)	BC Loss: tensor(1.7888e-11)	NS PDE Loss: tensor(63.8579)	Mv Bdry Los
s: tensor(2.9822e+10)			
Iteration: 13600	Total Loss: tensor(2.9700e+10)		

IC Loss: tensor(0.4407)	BC Loss: tensor(1.7917e-11)	NS PDE Loss: tensor(63.8505)	Mv Bdry Los
s: tensor(2.9693e+10)			
Iteration: 13800	Total Loss: tensor(2.9464e+10)		
IC Loss: tensor(0.4407)	BC Loss: tensor(1.7686e-11)	NS PDE Loss: tensor(63.8443)	Mv Bdry Los
s: tensor(2.9457e+10)			
Iteration: 14000	Total Loss: tensor(2.9392e+10)		
IC Loss: tensor(0.4406)	BC Loss: tensor(1.8251e-11)	NS PDE Loss: tensor(63.8372)	Mv Bdry Los
s: tensor(2.9386e+10)			
Iteration: 14200	Total Loss: tensor(2.8715e+10)		
IC Loss: tensor(0.4406)	BC Loss: tensor(1.8142e-11)	NS PDE Loss: tensor(63.8317)	Mv Bdry Los
s: tensor(2.8709e+10)			
Iteration: 14400	Total Loss: tensor(2.8394e+10)		
IC Loss: tensor(0.4406)	BC Loss: tensor(1.8377e-11)	NS PDE Loss: tensor(63.8254)	Mv Bdry Los
s: tensor(2.8388e+10)			
Iteration: 14600	Total Loss: tensor(2.8265e+10)		
IC Loss: tensor(0.4405)	BC Loss: tensor(1.8784e-11)	NS PDE Loss: tensor(63.8190)	Mv Bdry Los
s: tensor(2.8259e+10)			
Iteration: 14800	Total Loss: tensor(2.7882e+10)		
IC Loss: tensor(0.4405)	BC Loss: tensor(1.8780e-11)	NS PDE Loss: tensor(63.8132)	Mv Bdry Los
s: tensor(2.7875e+10)			
Iteration: 15000	Total Loss: tensor(2.7947e+10)		
IC Loss: tensor(0.4405)	BC Loss: tensor(1.8778e-11)	NS PDE Loss: tensor(63.8075)	Mv Bdry Los
s: tensor(2.7940e+10)			
Iteration: 15200	Total Loss: tensor(2.7481e+10)		
IC Loss: tensor(0.4404)	BC Loss: tensor(1.9155e-11)	NS PDE Loss: tensor(63.8020)	Mv Bdry Los
s: tensor(2.7474e+10)			
Iteration: 15400	Total Loss: tensor(2.7124e+10)		
IC Loss: tensor(0.4404)	BC Loss: tensor(1.9190e-11)	NS PDE Loss: tensor(63.7963)	Mv Bdry Los
s: tensor(2.7118e+10)			
Iteration: 15600	Total Loss: tensor(2.6949e+10)		
IC Loss: tensor(0.4404)	BC Loss: tensor(1.9376e-11)	NS PDE Loss: tensor(63.7913)	Mv Bdry Los
s: tensor(2.6942e+10)			
Iteration: 15800	Total Loss: tensor(2.6768e+10)		
IC Loss: tensor(0.4404)	BC Loss: tensor(1.9176e-11)	NS PDE Loss: tensor(63.7863)	Mv Bdry Los
s: tensor(2.6761e+10)			
Iteration: 16000	Total Loss: tensor(2.6696e+10)		
IC Loss: tensor(0.4404)	BC Loss: tensor(1.9249e-11)	NS PDE Loss: tensor(63.7816)	Mv Bdry Los
s: tensor(2.6689e+10)			
Iteration: 16200	Total Loss: tensor(2.6272e+10)		
IC Loss: tensor(0.4404)	BC Loss: tensor(1.9545e-11)	NS PDE Loss: tensor(63.7774)	Mv Bdry Los
s: tensor(2.6265e+10)			
Iteration: 16400	Total Loss: tensor(2.6088e+10)		

IC Loss: tensor(0.4404)	BC Loss: tensor(1.9682e-11)	NS PDE Loss: tensor(63.7723)	Mv Bdry Los
s: tensor(2.6082e+10)			
Iteration: 16600	Total Loss: tensor(2.5952e+10)		
IC Loss: tensor(0.4400)	BC Loss: tensor(1.9784e-11)	NS PDE Loss: tensor(63.7685)	Mv Bdry Los
s: tensor(2.5946e+10)			
Iteration: 16800	Total Loss: tensor(2.5735e+10)		
IC Loss: tensor(0.4400)	BC Loss: tensor(1.9952e-11)	NS PDE Loss: tensor(63.7629)	Mv Bdry Los
s: tensor(2.5728e+10)			
Iteration: 17000	Total Loss: tensor(2.5832e+10)		
IC Loss: tensor(0.4400)	BC Loss: tensor(1.9732e-11)	NS PDE Loss: tensor(63.7593)	Mv Bdry Los
s: tensor(2.5826e+10)			
Iteration: 17200	Total Loss: tensor(2.5461e+10)		
IC Loss: tensor(0.4400)	BC Loss: tensor(1.9387e-11)	NS PDE Loss: tensor(63.7557)	Mv Bdry Los
s: tensor(2.5455e+10)			
Iteration: 17400	Total Loss: tensor(2.5117e+10)		
IC Loss: tensor(0.4400)	BC Loss: tensor(1.9282e-11)	NS PDE Loss: tensor(63.7527)	Mv Bdry Los
s: tensor(2.5111e+10)			
Iteration: 17600	Total Loss: tensor(2.5097e+10)		
IC Loss: tensor(0.4400)	BC Loss: tensor(1.9295e-11)	NS PDE Loss: tensor(63.7487)	Mv Bdry Los
s: tensor(2.5091e+10)			
Iteration: 17800	Total Loss: tensor(2.5028e+10)		
IC Loss: tensor(0.4401)	BC Loss: tensor(1.9487e-11)	NS PDE Loss: tensor(63.7456)	Mv Bdry Los
s: tensor(2.5021e+10)			
Iteration: 18000	Total Loss: tensor(2.5005e+10)		
IC Loss: tensor(0.4401)	BC Loss: tensor(1.9295e-11)	NS PDE Loss: tensor(63.7426)	Mv Bdry Los
s: tensor(2.4999e+10)			
Iteration: 18200	Total Loss: tensor(2.4573e+10)		
IC Loss: tensor(0.4401)	BC Loss: tensor(1.9770e-11)	NS PDE Loss: tensor(63.7385)	Mv Bdry Los
s: tensor(2.4566e+10)			
Iteration: 18400	Total Loss: tensor(2.4463e+10)		
IC Loss: tensor(0.4401)	BC Loss: tensor(2.0126e-11)	NS PDE Loss: tensor(63.7357)	Mv Bdry Los
s: tensor(2.4457e+10)			
Iteration: 18600	Total Loss: tensor(2.4360e+10)		
IC Loss: tensor(0.4401)	BC Loss: tensor(2.0020e-11)	NS PDE Loss: tensor(63.7325)	Mv Bdry Los
s: tensor(2.4353e+10)			
Iteration: 18800	Total Loss: tensor(2.4294e+10)		
IC Loss: tensor(0.4402)	BC Loss: tensor(1.9871e-11)	NS PDE Loss: tensor(63.7293)	Mv Bdry Los
s: tensor(2.4287e+10)			
Iteration: 19000	Total Loss: tensor(2.4299e+10)		
IC Loss: tensor(0.4402)	BC Loss: tensor(1.9214e-11)	NS PDE Loss: tensor(63.7256)	Mv Bdry Los
s: tensor(2.4293e+10)			
Iteration: 19200	Total Loss: tensor(2.3890e+10)		

IC Loss: tensor(0.4402)	BC Loss: tensor(1.9727e-11)	NS PDE Loss: tensor(63.7237)	Mv Bdry Los
s: tensor(2.3884e+10)			
Iteration: 19400	Total Loss: tensor(2.3842e+10)		
IC Loss: tensor(0.4402)	BC Loss: tensor(1.9741e-11)	NS PDE Loss: tensor(63.7215)	Mv Bdry Los
s: tensor(2.3835e+10)			
Iteration: 19600	Total Loss: tensor(2.3700e+10)		
IC Loss: tensor(0.4403)	BC Loss: tensor(1.9413e-11)	NS PDE Loss: tensor(63.7183)	Mv Bdry Los
s: tensor(2.3694e+10)			
Iteration: 19800	Total Loss: tensor(2.3485e+10)		
IC Loss: tensor(0.4403)	BC Loss: tensor(1.9366e-11)	NS PDE Loss: tensor(63.7159)	Mv Bdry Los
s: tensor(2.3478e+10)			
Iteration: 20000	Total Loss: tensor(2.3779e+10)		
IC Loss: tensor(0.4403)	BC Loss: tensor(1.9310e-11)	NS PDE Loss: tensor(63.7131)	Mv Bdry Los
s: tensor(2.3772e+10)			
Current Final Time: 0.1 Current Learning Rate: 1e-05			
Iteration: 200	Total Loss: tensor(2.7741e+11)		
IC Loss: tensor(0.4702)	BC Loss: tensor(1.2108e-11)	NS PDE Loss: tensor(65.0888)	Mv Bdry Los
s: tensor(2.7740e+11)			
Iteration: 400	Total Loss: tensor(1.8895e+11)		
IC Loss: tensor(0.4714)	BC Loss: tensor(2.7788e-11)	NS PDE Loss: tensor(64.8425)	Mv Bdry Los
s: tensor(1.8894e+11)			
Iteration: 600	Total Loss: tensor(1.4527e+11)		
IC Loss: tensor(0.4729)	BC Loss: tensor(4.7717e-11)	NS PDE Loss: tensor(64.6578)	Mv Bdry Los
s: tensor(1.4526e+11)			
Iteration: 800	Total Loss: tensor(7.3305e+10)		
IC Loss: tensor(0.4828)	BC Loss: tensor(2.4864e-11)	NS PDE Loss: tensor(64.5115)	Mv Bdry Los
s: tensor(7.3298e+10)			
Iteration: 1000	Total Loss: tensor(4.7372e+10)		
IC Loss: tensor(0.4833)	BC Loss: tensor(3.1570e-11)	NS PDE Loss: tensor(64.4114)	Mv Bdry Los
s: tensor(4.7366e+10)			
Iteration: 1200	Total Loss: tensor(3.4073e+10)		
IC Loss: tensor(0.4835)	BC Loss: tensor(3.4891e-11)	NS PDE Loss: tensor(64.3538)	Mv Bdry Los
s: tensor(3.4067e+10)			
Iteration: 1400	Total Loss: tensor(2.6790e+10)		
IC Loss: tensor(0.4835)	BC Loss: tensor(4.3518e-11)	NS PDE Loss: tensor(64.2959)	Mv Bdry Los
s: tensor(2.6783e+10)			
Iteration: 1600	Total Loss: tensor(2.2386e+10)		
IC Loss: tensor(0.4842)	BC Loss: tensor(5.0734e-11)	NS PDE Loss: tensor(64.2535)	Mv Bdry Los
s: tensor(2.2380e+10)			
Iteration: 1800	Total Loss: tensor(1.9472e+10)		
IC Loss: tensor(0.4842)	BC Loss: tensor(6.1064e-11)	NS PDE Loss: tensor(64.2297)	Mv Bdry Los
s: tensor(1.9465e+10)			

Iteration: 2000	Total Loss: tensor(1.7461e+10)		
IC Loss: tensor(0.4843)	BC Loss: tensor(6.5067e-11)	NS PDE Loss: tensor(64.2138)	Mv Bdry Los
s: tensor(1.7455e+10)			
Iteration: 2200	Total Loss: tensor(1.5952e+10)		
IC Loss: tensor(0.4844)	BC Loss: tensor(6.8829e-11)	NS PDE Loss: tensor(64.2009)	Mv Bdry Los
s: tensor(1.5946e+10)			
Iteration: 2400	Total Loss: tensor(1.4771e+10)		
IC Loss: tensor(0.4845)	BC Loss: tensor(7.1931e-11)	NS PDE Loss: tensor(64.1971)	Mv Bdry Los
s: tensor(1.4764e+10)			
Iteration: 2600	Total Loss: tensor(1.3856e+10)		
IC Loss: tensor(0.4847)	BC Loss: tensor(7.6426e-11)	NS PDE Loss: tensor(64.1839)	Mv Bdry Los
s: tensor(1.3850e+10)			
Iteration: 2800	Total Loss: tensor(1.3177e+10)		
IC Loss: tensor(0.4850)	BC Loss: tensor(8.1046e-11)	NS PDE Loss: tensor(64.1745)	Mv Bdry Los
s: tensor(1.3171e+10)			
Iteration: 3000	Total Loss: tensor(1.2649e+10)		
IC Loss: tensor(0.4854)	BC Loss: tensor(8.5499e-11)	NS PDE Loss: tensor(64.1750)	Mv Bdry Los
s: tensor(1.2643e+10)			
Iteration: 3200	Total Loss: tensor(1.2224e+10)		
IC Loss: tensor(0.4858)	BC Loss: tensor(8.9458e-11)	NS PDE Loss: tensor(64.1484)	Mv Bdry Los
s: tensor(1.2218e+10)			
Iteration: 3400	Total Loss: tensor(1.1826e+10)		
IC Loss: tensor(0.4864)	BC Loss: tensor(9.0832e-11)	NS PDE Loss: tensor(64.1327)	Mv Bdry Los
s: tensor(1.1819e+10)			
Iteration: 3600	Total Loss: tensor(1.1523e+10)		
IC Loss: tensor(0.4869)	BC Loss: tensor(9.4481e-11)	NS PDE Loss: tensor(64.1214)	Mv Bdry Los
s: tensor(1.1517e+10)			
Iteration: 3800	Total Loss: tensor(1.1226e+10)		
IC Loss: tensor(0.4874)	BC Loss: tensor(9.6338e-11)	NS PDE Loss: tensor(64.1145)	Mv Bdry Los
s: tensor(1.1220e+10)			
Iteration: 4000	Total Loss: tensor(1.0947e+10)		
IC Loss: tensor(0.4880)	BC Loss: tensor(9.8632e-11)	NS PDE Loss: tensor(64.0897)	Mv Bdry Los
s: tensor(1.0941e+10)			
Iteration: 4200	Total Loss: tensor(1.0671e+10)		
IC Loss: tensor(0.4885)	BC Loss: tensor(9.8123e-11)	NS PDE Loss: tensor(64.0687)	Mv Bdry Los
s: tensor(1.0665e+10)			
Iteration: 4400	Total Loss: tensor(1.0457e+10)		
IC Loss: tensor(0.4890)	BC Loss: tensor(9.7896e-11)	NS PDE Loss: tensor(64.0532)	Mv Bdry Los
s: tensor(1.0451e+10)			
Iteration: 4600	Total Loss: tensor(1.0205e+10)		
IC Loss: tensor(0.4895)	BC Loss: tensor(9.9802e-11)	NS PDE Loss: tensor(64.0289)	Mv Bdry Los
s: tensor(1.0198e+10)			

Iteration: 4800	Total Loss: tensor(9.9982e+09)		
IC Loss: tensor(0.4900)	BC Loss: tensor(1.0145e-10)	NS PDE Loss: tensor(64.0083)	Mv Bdry Los
s: tensor(9.9918e+09)			
Iteration: 5000	Total Loss: tensor(9.7926e+09)		
IC Loss: tensor(0.4904)	BC Loss: tensor(1.0295e-10)	NS PDE Loss: tensor(63.9873)	Mv Bdry Los
s: tensor(9.7861e+09)			
Iteration: 5200	Total Loss: tensor(9.5791e+09)		
IC Loss: tensor(0.4909)	BC Loss: tensor(1.0406e-10)	NS PDE Loss: tensor(63.9662)	Mv Bdry Los
s: tensor(9.5727e+09)			
Iteration: 5400	Total Loss: tensor(9.4073e+09)		
IC Loss: tensor(0.4913)	BC Loss: tensor(1.0391e-10)	NS PDE Loss: tensor(63.9462)	Mv Bdry Los
s: tensor(9.4009e+09)			
Iteration: 5600	Total Loss: tensor(9.2225e+09)		
IC Loss: tensor(0.4916)	BC Loss: tensor(1.0309e-10)	NS PDE Loss: tensor(63.9284)	Mv Bdry Los
s: tensor(9.2161e+09)			
Iteration: 5800	Total Loss: tensor(9.0412e+09)		
IC Loss: tensor(0.4913)	BC Loss: tensor(1.0566e-10)	NS PDE Loss: tensor(63.9121)	Mv Bdry Los
s: tensor(9.0348e+09)			
Iteration: 6000	Total Loss: tensor(8.9213e+09)		
IC Loss: tensor(0.4916)	BC Loss: tensor(1.0658e-10)	NS PDE Loss: tensor(63.8974)	Mv Bdry Los
s: tensor(8.9149e+09)			
Iteration: 6200	Total Loss: tensor(8.4927e+09)		
IC Loss: tensor(0.4915)	BC Loss: tensor(1.0484e-10)	NS PDE Loss: tensor(63.9054)	Mv Bdry Los
s: tensor(8.4862e+09)			
Iteration: 6400	Total Loss: tensor(8.2769e+09)		
IC Loss: tensor(0.4916)	BC Loss: tensor(1.0582e-10)	NS PDE Loss: tensor(63.8909)	Mv Bdry Los
s: tensor(8.2705e+09)			
Iteration: 6600	Total Loss: tensor(8.0808e+09)		
IC Loss: tensor(0.4917)	BC Loss: tensor(1.0584e-10)	NS PDE Loss: tensor(63.8833)	Mv Bdry Los
s: tensor(8.0744e+09)			
Iteration: 6800	Total Loss: tensor(7.9112e+09)		
IC Loss: tensor(0.4918)	BC Loss: tensor(1.0692e-10)	NS PDE Loss: tensor(63.8790)	Mv Bdry Los
s: tensor(7.9048e+09)			
Iteration: 7000	Total Loss: tensor(7.7565e+09)		
IC Loss: tensor(0.4919)	BC Loss: tensor(1.0756e-10)	NS PDE Loss: tensor(63.8762)	Mv Bdry Los
s: tensor(7.7501e+09)			
Iteration: 7200	Total Loss: tensor(7.6052e+09)		
IC Loss: tensor(0.4920)	BC Loss: tensor(1.0842e-10)	NS PDE Loss: tensor(63.8747)	Mv Bdry Los
s: tensor(7.5988e+09)			
Iteration: 7400	Total Loss: tensor(7.4560e+09)		
IC Loss: tensor(0.4921)	BC Loss: tensor(1.1073e-10)	NS PDE Loss: tensor(63.8737)	Mv Bdry Los
s: tensor(7.4496e+09)			

Iteration: 7600	Total Loss: tensor(7.3402e+09)		
IC Loss: tensor(0.4921)	BC Loss: tensor(1.1065e-10)	NS PDE Loss: tensor(63.8741)	Mv Bdry Los
s: tensor(7.3338e+09)			
Iteration: 7800	Total Loss: tensor(7.2104e+09)		
IC Loss: tensor(0.4922)	BC Loss: tensor(1.1146e-10)	NS PDE Loss: tensor(63.8750)	Mv Bdry Los
s: tensor(7.2039e+09)			
Iteration: 8000	Total Loss: tensor(7.1225e+09)		
IC Loss: tensor(0.4923)	BC Loss: tensor(1.1220e-10)	NS PDE Loss: tensor(63.8764)	Mv Bdry Los
s: tensor(7.1160e+09)			
Iteration: 8200	Total Loss: tensor(6.9910e+09)		
IC Loss: tensor(0.4923)	BC Loss: tensor(1.1166e-10)	NS PDE Loss: tensor(63.8786)	Mv Bdry Los
s: tensor(6.9846e+09)			
Iteration: 8400	Total Loss: tensor(6.9117e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.1183e-10)	NS PDE Loss: tensor(63.8806)	Mv Bdry Los
s: tensor(6.9053e+09)			
Iteration: 8600	Total Loss: tensor(6.8014e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.1092e-10)	NS PDE Loss: tensor(63.8772)	Mv Bdry Los
s: tensor(6.7950e+09)			
Iteration: 8800	Total Loss: tensor(6.7155e+09)		
IC Loss: tensor(0.4925)	BC Loss: tensor(1.1090e-10)	NS PDE Loss: tensor(63.8728)	Mv Bdry Los
s: tensor(6.7091e+09)			
Iteration: 9000	Total Loss: tensor(6.5958e+09)		
IC Loss: tensor(0.4925)	BC Loss: tensor(1.1106e-10)	NS PDE Loss: tensor(63.8670)	Mv Bdry Los
s: tensor(6.5894e+09)			
Iteration: 9200	Total Loss: tensor(6.5218e+09)		
IC Loss: tensor(0.4925)	BC Loss: tensor(1.1267e-10)	NS PDE Loss: tensor(63.8609)	Mv Bdry Los
s: tensor(6.5154e+09)			
Iteration: 9400	Total Loss: tensor(6.4464e+09)		
IC Loss: tensor(0.4926)	BC Loss: tensor(1.1171e-10)	NS PDE Loss: tensor(63.8546)	Mv Bdry Los
s: tensor(6.4400e+09)			
Iteration: 9600	Total Loss: tensor(6.3771e+09)		
IC Loss: tensor(0.4926)	BC Loss: tensor(1.1442e-10)	NS PDE Loss: tensor(63.8480)	Mv Bdry Los
s: tensor(6.3707e+09)			
Iteration: 9800	Total Loss: tensor(6.2703e+09)		
IC Loss: tensor(0.4926)	BC Loss: tensor(1.1308e-10)	NS PDE Loss: tensor(63.8417)	Mv Bdry Los
s: tensor(6.2638e+09)			
Iteration: 10000	Total Loss: tensor(6.1914e+09)		
IC Loss: tensor(0.4926)	BC Loss: tensor(1.1421e-10)	NS PDE Loss: tensor(63.8360)	Mv Bdry Los
s: tensor(6.1850e+09)			
Iteration: 10200	Total Loss: tensor(6.1602e+09)		
IC Loss: tensor(0.4926)	BC Loss: tensor(1.1278e-10)	NS PDE Loss: tensor(63.8308)	Mv Bdry Los
s: tensor(6.1537e+09)			

Iteration: 10400	Total Loss: tensor(6.0958e+09)		
IC Loss: tensor(0.4926)	BC Loss: tensor(1.1473e-10)	NS PDE Loss: tensor(63.8258)	Mv Bdry Los
s: tensor(6.0893e+09)			
Iteration: 10600	Total Loss: tensor(6.0108e+09)		
IC Loss: tensor(0.4926)	BC Loss: tensor(1.1568e-10)	NS PDE Loss: tensor(63.8198)	Mv Bdry Los
s: tensor(6.0044e+09)			
Iteration: 10800	Total Loss: tensor(5.9564e+09)		
IC Loss: tensor(0.4926)	BC Loss: tensor(1.1616e-10)	NS PDE Loss: tensor(63.8144)	Mv Bdry Los
s: tensor(5.9500e+09)			
Iteration: 11000	Total Loss: tensor(5.8705e+09)		
IC Loss: tensor(0.4926)	BC Loss: tensor(1.1614e-10)	NS PDE Loss: tensor(63.8099)	Mv Bdry Los
s: tensor(5.8641e+09)			
Iteration: 11200	Total Loss: tensor(5.8175e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.1711e-10)	NS PDE Loss: tensor(63.8053)	Mv Bdry Los
s: tensor(5.8111e+09)			
Iteration: 11400	Total Loss: tensor(5.7857e+09)		
IC Loss: tensor(0.4925)	BC Loss: tensor(1.1820e-10)	NS PDE Loss: tensor(63.8013)	Mv Bdry Los
s: tensor(5.7793e+09)			
Iteration: 11600	Total Loss: tensor(5.6991e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.2048e-10)	NS PDE Loss: tensor(63.7973)	Mv Bdry Los
s: tensor(5.6927e+09)			
Iteration: 11800	Total Loss: tensor(5.6614e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.2140e-10)	NS PDE Loss: tensor(63.7941)	Mv Bdry Los
s: tensor(5.6550e+09)			
Iteration: 12000	Total Loss: tensor(5.6107e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.1997e-10)	NS PDE Loss: tensor(63.7904)	Mv Bdry Los
s: tensor(5.6043e+09)			
Iteration: 12200	Total Loss: tensor(5.5593e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.2079e-10)	NS PDE Loss: tensor(63.7878)	Mv Bdry Los
s: tensor(5.5529e+09)			
Iteration: 12400	Total Loss: tensor(5.5122e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.1896e-10)	NS PDE Loss: tensor(63.7853)	Mv Bdry Los
s: tensor(5.5057e+09)			
Iteration: 12600	Total Loss: tensor(5.4859e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.1976e-10)	NS PDE Loss: tensor(63.7833)	Mv Bdry Los
s: tensor(5.4794e+09)			
Iteration: 12800	Total Loss: tensor(5.4301e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.1993e-10)	NS PDE Loss: tensor(63.7813)	Mv Bdry Los
s: tensor(5.4237e+09)			
Iteration: 13000	Total Loss: tensor(5.3951e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.2034e-10)	NS PDE Loss: tensor(63.7795)	Mv Bdry Los
s: tensor(5.3886e+09)			

Iteration: 13200	Total Loss: tensor(5.3489e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.2091e-10)	NS PDE Loss: tensor(63.7779)	Mv Bdry Los
s: tensor(5.3425e+09)			
Iteration: 13400	Total Loss: tensor(5.3021e+09)		
IC Loss: tensor(0.4923)	BC Loss: tensor(1.1956e-10)	NS PDE Loss: tensor(63.7753)	Mv Bdry Los
s: tensor(5.2957e+09)			
Iteration: 13600	Total Loss: tensor(5.2708e+09)		
IC Loss: tensor(0.4923)	BC Loss: tensor(1.1977e-10)	NS PDE Loss: tensor(63.7711)	Mv Bdry Los
s: tensor(5.2644e+09)			
Iteration: 13800	Total Loss: tensor(5.2323e+09)		
IC Loss: tensor(0.4924)	BC Loss: tensor(1.2074e-10)	NS PDE Loss: tensor(63.7659)	Mv Bdry Los
s: tensor(5.2259e+09)			
Iteration: 14000	Total Loss: tensor(5.1972e+09)		
IC Loss: tensor(0.4923)	BC Loss: tensor(1.1956e-10)	NS PDE Loss: tensor(63.7620)	Mv Bdry Los
s: tensor(5.1908e+09)			
Iteration: 14200	Total Loss: tensor(5.1415e+09)		
IC Loss: tensor(0.4923)	BC Loss: tensor(1.1790e-10)	NS PDE Loss: tensor(63.7576)	Mv Bdry Los
s: tensor(5.1351e+09)			
Iteration: 14400	Total Loss: tensor(5.1270e+09)		
IC Loss: tensor(0.4922)	BC Loss: tensor(1.1937e-10)	NS PDE Loss: tensor(63.7538)	Mv Bdry Los
s: tensor(5.1205e+09)			
Iteration: 14600	Total Loss: tensor(5.0770e+09)		
IC Loss: tensor(0.4922)	BC Loss: tensor(1.2262e-10)	NS PDE Loss: tensor(63.7500)	Mv Bdry Los
s: tensor(5.0706e+09)			
Iteration: 14800	Total Loss: tensor(5.0437e+09)		
IC Loss: tensor(0.4921)	BC Loss: tensor(1.2445e-10)	NS PDE Loss: tensor(63.7474)	Mv Bdry Los
s: tensor(5.0373e+09)			
Iteration: 15000	Total Loss: tensor(5.0044e+09)		
IC Loss: tensor(0.4921)	BC Loss: tensor(1.2761e-10)	NS PDE Loss: tensor(63.7433)	Mv Bdry Los
s: tensor(4.9979e+09)			
Iteration: 15200	Total Loss: tensor(4.9646e+09)		
IC Loss: tensor(0.4920)	BC Loss: tensor(1.3083e-10)	NS PDE Loss: tensor(63.7393)	Mv Bdry Los
s: tensor(4.9582e+09)			
Iteration: 15400	Total Loss: tensor(4.9475e+09)		
IC Loss: tensor(0.4919)	BC Loss: tensor(1.3179e-10)	NS PDE Loss: tensor(63.7354)	Mv Bdry Los
s: tensor(4.9410e+09)			
Iteration: 15600	Total Loss: tensor(4.9275e+09)		
IC Loss: tensor(0.4918)	BC Loss: tensor(1.3091e-10)	NS PDE Loss: tensor(63.7321)	Mv Bdry Los
s: tensor(4.9211e+09)			
Iteration: 15800	Total Loss: tensor(4.8643e+09)		
IC Loss: tensor(0.4917)	BC Loss: tensor(1.2781e-10)	NS PDE Loss: tensor(63.7292)	Mv Bdry Los
s: tensor(4.8579e+09)			

Iteration: 16000	Total Loss: tensor(4.8466e+09)		
IC Loss: tensor(0.4916)	BC Loss: tensor(1.2722e-10)	NS PDE Loss: tensor(63.7271)	Mv Bdry Los
s: tensor(4.8402e+09)			
Iteration: 16200	Total Loss: tensor(4.8238e+09)		
IC Loss: tensor(0.4915)	BC Loss: tensor(1.2901e-10)	NS PDE Loss: tensor(63.7248)	Mv Bdry Los
s: tensor(4.8174e+09)			
Iteration: 16400	Total Loss: tensor(4.7911e+09)		
IC Loss: tensor(0.4914)	BC Loss: tensor(1.2595e-10)	NS PDE Loss: tensor(63.7220)	Mv Bdry Los
s: tensor(4.7847e+09)			
Iteration: 16600	Total Loss: tensor(4.7504e+09)		
IC Loss: tensor(0.4913)	BC Loss: tensor(1.2550e-10)	NS PDE Loss: tensor(63.7201)	Mv Bdry Los
s: tensor(4.7440e+09)			
Iteration: 16800	Total Loss: tensor(4.7282e+09)		
IC Loss: tensor(0.4912)	BC Loss: tensor(1.2571e-10)	NS PDE Loss: tensor(63.7182)	Mv Bdry Los
s: tensor(4.7218e+09)			
Iteration: 17000	Total Loss: tensor(4.7368e+09)		
IC Loss: tensor(0.4911)	BC Loss: tensor(1.2816e-10)	NS PDE Loss: tensor(63.7166)	Mv Bdry Los
s: tensor(4.7304e+09)			
Iteration: 17200	Total Loss: tensor(4.6867e+09)		
IC Loss: tensor(0.4910)	BC Loss: tensor(1.2919e-10)	NS PDE Loss: tensor(63.7149)	Mv Bdry Los
s: tensor(4.6803e+09)			
Iteration: 17400	Total Loss: tensor(4.6321e+09)		
IC Loss: tensor(0.4909)	BC Loss: tensor(1.2697e-10)	NS PDE Loss: tensor(63.7144)	Mv Bdry Los
s: tensor(4.6257e+09)			
Iteration: 17600	Total Loss: tensor(4.6231e+09)		
IC Loss: tensor(0.4908)	BC Loss: tensor(1.3051e-10)	NS PDE Loss: tensor(63.7140)	Mv Bdry Los
s: tensor(4.6167e+09)			
Iteration: 17800	Total Loss: tensor(4.5605e+09)		
IC Loss: tensor(0.4907)	BC Loss: tensor(1.3210e-10)	NS PDE Loss: tensor(63.7143)	Mv Bdry Los
s: tensor(4.5541e+09)			
Iteration: 18000	Total Loss: tensor(4.5398e+09)		
IC Loss: tensor(0.4907)	BC Loss: tensor(1.3420e-10)	NS PDE Loss: tensor(63.7065)	Mv Bdry Los
s: tensor(4.5333e+09)			
Iteration: 18200	Total Loss: tensor(4.4564e+09)		
IC Loss: tensor(0.4915)	BC Loss: tensor(1.3475e-10)	NS PDE Loss: tensor(63.7010)	Mv Bdry Los
s: tensor(4.4500e+09)			
Iteration: 18400	Total Loss: tensor(4.4331e+09)		
IC Loss: tensor(0.4910)	BC Loss: tensor(1.3664e-10)	NS PDE Loss: tensor(63.6996)	Mv Bdry Los
s: tensor(4.4267e+09)			
Iteration: 18600	Total Loss: tensor(4.3679e+09)		
IC Loss: tensor(0.4911)	BC Loss: tensor(1.3723e-10)	NS PDE Loss: tensor(63.6992)	Mv Bdry Los
s: tensor(4.3615e+09)			

Iteration: 18800	Total Loss: tensor(4.3506e+09)		
IC Loss: tensor(0.4911)	BC Loss: tensor(1.3877e-10)	NS PDE Loss: tensor(63.6965)	Mv Bdry Los
s: tensor(4.3442e+09)			
Iteration: 19000	Total Loss: tensor(4.2877e+09)		
IC Loss: tensor(0.4912)	BC Loss: tensor(1.4047e-10)	NS PDE Loss: tensor(63.6950)	Mv Bdry Los
s: tensor(4.2812e+09)			
Iteration: 19200	Total Loss: tensor(4.2564e+09)		
IC Loss: tensor(0.4912)	BC Loss: tensor(1.4273e-10)	NS PDE Loss: tensor(63.6947)	Mv Bdry Los
s: tensor(4.2500e+09)			
Iteration: 19400	Total Loss: tensor(4.2179e+09)		
IC Loss: tensor(0.4912)	BC Loss: tensor(1.4193e-10)	NS PDE Loss: tensor(63.6954)	Mv Bdry Los
s: tensor(4.2115e+09)			
Iteration: 19600	Total Loss: tensor(4.2120e+09)		
IC Loss: tensor(0.4913)	BC Loss: tensor(1.4263e-10)	NS PDE Loss: tensor(63.6974)	Mv Bdry Los
s: tensor(4.2056e+09)			
Iteration: 19800	Total Loss: tensor(4.1806e+09)		
IC Loss: tensor(0.4913)	BC Loss: tensor(1.4386e-10)	NS PDE Loss: tensor(63.6988)	Mv Bdry Los
s: tensor(4.1742e+09)			
Iteration: 20000	Total Loss: tensor(4.1560e+09)		
IC Loss: tensor(0.4913)	BC Loss: tensor(1.4502e-10)	NS PDE Loss: tensor(63.7012)	Mv Bdry Los
s: tensor(4.1496e+09)			
Executing Pass 3			
Current Final Time: 0.01 Current Learning Rate: 4.9999999999999996e-06			
Iteration: 200	Total Loss: tensor(1.3778e+12)		
IC Loss: tensor(0.4825)	BC Loss: tensor(1.4542e-10)	NS PDE Loss: tensor(63.4464)	Mv Bdry Los
s: tensor(1.3778e+12)			
Iteration: 400	Total Loss: tensor(1.0559e+12)		
IC Loss: tensor(0.4787)	BC Loss: tensor(1.1825e-10)	NS PDE Loss: tensor(63.2331)	Mv Bdry Los
s: tensor(1.0559e+12)			
Iteration: 600	Total Loss: tensor(8.8852e+11)		
IC Loss: tensor(0.4784)	BC Loss: tensor(1.1192e-10)	NS PDE Loss: tensor(63.2597)	Mv Bdry Los
s: tensor(8.8851e+11)			
Iteration: 800	Total Loss: tensor(7.8767e+11)		
IC Loss: tensor(0.4786)	BC Loss: tensor(1.2638e-10)	NS PDE Loss: tensor(63.1625)	Mv Bdry Los
s: tensor(7.8767e+11)			
Iteration: 1000	Total Loss: tensor(7.0924e+11)		
IC Loss: tensor(0.4797)	BC Loss: tensor(1.2262e-10)	NS PDE Loss: tensor(62.9442)	Mv Bdry Los
s: tensor(7.0924e+11)			
Iteration: 1200	Total Loss: tensor(6.5556e+11)		
IC Loss: tensor(0.4805)	BC Loss: tensor(7.3044e-11)	NS PDE Loss: tensor(62.9654)	Mv Bdry Los
s: tensor(6.5555e+11)			
Iteration: 1400	Total Loss: tensor(6.1272e+11)		

IC Loss: tensor(0.4812)	BC Loss: tensor(3.2161e-11)	NS PDE Loss: tensor(62.9010)	Mv Bdry Los
s: tensor(6.1271e+11)			
Iteration: 1600	Total Loss: tensor(5.7697e+11)		
IC Loss: tensor(0.4807)	BC Loss: tensor(1.3640e-11)	NS PDE Loss: tensor(62.8216)	Mv Bdry Los
s: tensor(5.7697e+11)			
Iteration: 1800	Total Loss: tensor(5.4523e+11)		
IC Loss: tensor(0.4804)	BC Loss: tensor(1.2936e-11)	NS PDE Loss: tensor(62.7743)	Mv Bdry Los
s: tensor(5.4522e+11)			
Iteration: 2000	Total Loss: tensor(5.1491e+11)		
IC Loss: tensor(0.4796)	BC Loss: tensor(9.5947e-12)	NS PDE Loss: tensor(62.7516)	Mv Bdry Los
s: tensor(5.1490e+11)			
Iteration: 2200	Total Loss: tensor(4.8591e+11)		
IC Loss: tensor(0.4789)	BC Loss: tensor(9.6604e-12)	NS PDE Loss: tensor(62.7099)	Mv Bdry Los
s: tensor(4.8590e+11)			
Iteration: 2400	Total Loss: tensor(4.5984e+11)		
IC Loss: tensor(0.4785)	BC Loss: tensor(1.0496e-11)	NS PDE Loss: tensor(62.6887)	Mv Bdry Los
s: tensor(4.5984e+11)			
Iteration: 2600	Total Loss: tensor(4.3474e+11)		
IC Loss: tensor(0.4782)	BC Loss: tensor(6.9173e-12)	NS PDE Loss: tensor(62.6714)	Mv Bdry Los
s: tensor(4.3474e+11)			
Iteration: 2800	Total Loss: tensor(4.1166e+11)		
IC Loss: tensor(0.4783)	BC Loss: tensor(6.1601e-12)	NS PDE Loss: tensor(62.6698)	Mv Bdry Los
s: tensor(4.1165e+11)			
Iteration: 3000	Total Loss: tensor(3.4163e+11)		
IC Loss: tensor(0.4846)	BC Loss: tensor(1.0586e-11)	NS PDE Loss: tensor(62.5825)	Mv Bdry Los
s: tensor(3.4162e+11)			
Iteration: 3200	Total Loss: tensor(3.1305e+11)		
IC Loss: tensor(0.4848)	BC Loss: tensor(1.0733e-11)	NS PDE Loss: tensor(62.4942)	Mv Bdry Los
s: tensor(3.1305e+11)			
Iteration: 3400	Total Loss: tensor(2.9862e+11)		
IC Loss: tensor(0.4852)	BC Loss: tensor(1.5175e-11)	NS PDE Loss: tensor(62.4990)	Mv Bdry Los
s: tensor(2.9862e+11)			
Iteration: 3600	Total Loss: tensor(2.8197e+11)		
IC Loss: tensor(0.4851)	BC Loss: tensor(1.1903e-11)	NS PDE Loss: tensor(62.4414)	Mv Bdry Los
s: tensor(2.8197e+11)			
Iteration: 3800	Total Loss: tensor(2.5733e+11)		
IC Loss: tensor(0.4843)	BC Loss: tensor(1.1773e-11)	NS PDE Loss: tensor(62.3555)	Mv Bdry Los
s: tensor(2.5733e+11)			
Iteration: 4000	Total Loss: tensor(2.5872e+11)		
IC Loss: tensor(0.4843)	BC Loss: tensor(1.1887e-11)	NS PDE Loss: tensor(62.3518)	Mv Bdry Los
s: tensor(2.5871e+11)			
Iteration: 4200	Total Loss: tensor(2.5676e+11)		

IC Loss: tensor(0.4842)	BC Loss: tensor(1.1807e-11)	NS PDE Loss: tensor(62.3525)	Mv Bdry Los
s: tensor(2.5675e+11)			
Iteration: 4400	Total Loss: tensor(2.5232e+11)		
IC Loss: tensor(0.4840)	BC Loss: tensor(1.1775e-11)	NS PDE Loss: tensor(62.3548)	Mv Bdry Los
s: tensor(2.5232e+11)			
Iteration: 4600	Total Loss: tensor(2.6016e+11)		
IC Loss: tensor(0.4841)	BC Loss: tensor(1.1886e-11)	NS PDE Loss: tensor(62.3539)	Mv Bdry Los
s: tensor(2.6016e+11)			
Iteration: 4800	Total Loss: tensor(2.5927e+11)		
IC Loss: tensor(0.4840)	BC Loss: tensor(1.1908e-11)	NS PDE Loss: tensor(62.3538)	Mv Bdry Los
s: tensor(2.5926e+11)			
Iteration: 5000	Total Loss: tensor(2.5505e+11)		
IC Loss: tensor(0.4840)	BC Loss: tensor(1.1902e-11)	NS PDE Loss: tensor(62.3557)	Mv Bdry Los
s: tensor(2.5505e+11)			
Iteration: 5200	Total Loss: tensor(2.5439e+11)		
IC Loss: tensor(0.4840)	BC Loss: tensor(1.2024e-11)	NS PDE Loss: tensor(62.3543)	Mv Bdry Los
s: tensor(2.5439e+11)			
Iteration: 5400	Total Loss: tensor(2.5119e+11)		
IC Loss: tensor(0.4841)	BC Loss: tensor(1.1950e-11)	NS PDE Loss: tensor(62.3541)	Mv Bdry Los
s: tensor(2.5118e+11)			
Iteration: 5600	Total Loss: tensor(2.5043e+11)		
IC Loss: tensor(0.4840)	BC Loss: tensor(1.1927e-11)	NS PDE Loss: tensor(62.3545)	Mv Bdry Los
s: tensor(2.5042e+11)			
Iteration: 5800	Total Loss: tensor(2.5074e+11)		
IC Loss: tensor(0.4842)	BC Loss: tensor(1.1868e-11)	NS PDE Loss: tensor(62.3528)	Mv Bdry Los
s: tensor(2.5073e+11)			
Iteration: 6000	Total Loss: tensor(2.5377e+11)		
IC Loss: tensor(0.4842)	BC Loss: tensor(1.1813e-11)	NS PDE Loss: tensor(62.3545)	Mv Bdry Los
s: tensor(2.5376e+11)			
Iteration: 6200	Total Loss: tensor(2.5213e+11)		
IC Loss: tensor(0.4843)	BC Loss: tensor(1.1836e-11)	NS PDE Loss: tensor(62.3530)	Mv Bdry Los
s: tensor(2.5212e+11)			
Iteration: 6400	Total Loss: tensor(2.4965e+11)		
IC Loss: tensor(0.4841)	BC Loss: tensor(1.1843e-11)	NS PDE Loss: tensor(62.3548)	Mv Bdry Los
s: tensor(2.4964e+11)			
Iteration: 6600	Total Loss: tensor(2.6063e+11)		
IC Loss: tensor(0.4844)	BC Loss: tensor(1.1835e-11)	NS PDE Loss: tensor(62.3525)	Mv Bdry Los
s: tensor(2.6063e+11)			
Iteration: 6800	Total Loss: tensor(2.4908e+11)		
IC Loss: tensor(0.4841)	BC Loss: tensor(1.1756e-11)	NS PDE Loss: tensor(62.3546)	Mv Bdry Los
s: tensor(2.4908e+11)			
Iteration: 7000	Total Loss: tensor(2.4827e+11)		

IC Loss: tensor(0.4842)	BC Loss: tensor(1.1769e-11)	NS PDE Loss: tensor(62.3552)	Mv Bdry Los
s: tensor(2.4827e+11)			
Iteration: 7200	Total Loss: tensor(2.4933e+11)		
IC Loss: tensor(0.4842)	BC Loss: tensor(1.1744e-11)	NS PDE Loss: tensor(62.3545)	Mv Bdry Los
s: tensor(2.4933e+11)			
Iteration: 7400	Total Loss: tensor(2.5037e+11)		
IC Loss: tensor(0.4843)	BC Loss: tensor(1.1734e-11)	NS PDE Loss: tensor(62.3554)	Mv Bdry Los
s: tensor(2.5036e+11)			
Iteration: 7600	Total Loss: tensor(2.4674e+11)		
IC Loss: tensor(0.4842)	BC Loss: tensor(1.1696e-11)	NS PDE Loss: tensor(62.3576)	Mv Bdry Los
s: tensor(2.4673e+11)			
Iteration: 7800	Total Loss: tensor(2.4672e+11)		
IC Loss: tensor(0.4842)	BC Loss: tensor(1.1727e-11)	NS PDE Loss: tensor(62.3580)	Mv Bdry Los
s: tensor(2.4671e+11)			
Iteration: 8000	Total Loss: tensor(2.4504e+11)		
IC Loss: tensor(0.4839)	BC Loss: tensor(1.1681e-11)	NS PDE Loss: tensor(62.3640)	Mv Bdry Los
s: tensor(2.4503e+11)			
Iteration: 8200	Total Loss: tensor(2.4961e+11)		
IC Loss: tensor(0.4841)	BC Loss: tensor(1.1681e-11)	NS PDE Loss: tensor(62.3608)	Mv Bdry Los
s: tensor(2.4960e+11)			
Iteration: 8400	Total Loss: tensor(2.9209e+11)		
IC Loss: tensor(0.4842)	BC Loss: tensor(1.1661e-11)	NS PDE Loss: tensor(62.3601)	Mv Bdry Los
s: tensor(2.9208e+11)			
Iteration: 8600	Total Loss: tensor(2.4569e+11)		
IC Loss: tensor(0.4842)	BC Loss: tensor(1.1624e-11)	NS PDE Loss: tensor(62.3609)	Mv Bdry Los
s: tensor(2.4568e+11)			
Iteration: 8800	Total Loss: tensor(2.4736e+11)		
IC Loss: tensor(0.4842)	BC Loss: tensor(1.1632e-11)	NS PDE Loss: tensor(62.3621)	Mv Bdry Los
s: tensor(2.4735e+11)			
Iteration: 9000	Total Loss: tensor(2.8452e+11)		
IC Loss: tensor(0.4840)	BC Loss: tensor(1.1597e-11)	NS PDE Loss: tensor(62.3684)	Mv Bdry Los
s: tensor(2.8451e+11)			
Iteration: 9200	Total Loss: tensor(2.4406e+11)		
IC Loss: tensor(0.4842)	BC Loss: tensor(1.1508e-11)	NS PDE Loss: tensor(62.3656)	Mv Bdry Los
s: tensor(2.4405e+11)			
Iteration: 9400	Total Loss: tensor(2.4379e+11)		
IC Loss: tensor(0.4841)	BC Loss: tensor(1.1423e-11)	NS PDE Loss: tensor(62.3673)	Mv Bdry Los
s: tensor(2.4379e+11)			
Iteration: 9600	Total Loss: tensor(2.4476e+11)		
IC Loss: tensor(0.4843)	BC Loss: tensor(1.1379e-11)	NS PDE Loss: tensor(62.3675)	Mv Bdry Los
s: tensor(2.4475e+11)			
Iteration: 9800	Total Loss: tensor(2.4748e+11)		

IC Loss: tensor(0.4843)	BC Loss: tensor(1.1470e-11)	NS PDE Loss: tensor(62.3691)	Mv Bdry Los
s: tensor(2.4747e+11)			
Iteration: 10000	Total Loss: tensor(2.4219e+11)		
IC Loss: tensor(0.4843)	BC Loss: tensor(1.1450e-11)	NS PDE Loss: tensor(62.3700)	Mv Bdry Los
s: tensor(2.4219e+11)			
Iteration: 10200	Total Loss: tensor(2.3999e+11)		
IC Loss: tensor(0.4843)	BC Loss: tensor(1.1411e-11)	NS PDE Loss: tensor(62.3705)	Mv Bdry Los
s: tensor(2.3999e+11)			
Iteration: 10400	Total Loss: tensor(2.8864e+11)		
IC Loss: tensor(0.4846)	BC Loss: tensor(1.1428e-11)	NS PDE Loss: tensor(62.3723)	Mv Bdry Los
s: tensor(2.8863e+11)			
Iteration: 10600	Total Loss: tensor(2.5322e+11)		
IC Loss: tensor(0.4842)	BC Loss: tensor(1.1371e-11)	NS PDE Loss: tensor(62.3692)	Mv Bdry Los
s: tensor(2.5321e+11)			
Iteration: 10800	Total Loss: tensor(2.4811e+11)		
IC Loss: tensor(0.4844)	BC Loss: tensor(1.1307e-11)	NS PDE Loss: tensor(62.3710)	Mv Bdry Los
s: tensor(2.4810e+11)			
Iteration: 11000	Total Loss: tensor(2.4581e+11)		
IC Loss: tensor(0.4848)	BC Loss: tensor(1.1236e-11)	NS PDE Loss: tensor(62.3705)	Mv Bdry Los
s: tensor(2.4581e+11)			
Iteration: 11200	Total Loss: tensor(4.4561e+11)		
IC Loss: tensor(0.4845)	BC Loss: tensor(1.1156e-11)	NS PDE Loss: tensor(62.3676)	Mv Bdry Los
s: tensor(4.4560e+11)			
Iteration: 11400	Total Loss: tensor(2.5319e+11)		
IC Loss: tensor(0.4848)	BC Loss: tensor(1.1199e-11)	NS PDE Loss: tensor(62.3684)	Mv Bdry Los
s: tensor(2.5318e+11)			
Iteration: 11600	Total Loss: tensor(2.3567e+11)		
IC Loss: tensor(0.4846)	BC Loss: tensor(1.1201e-11)	NS PDE Loss: tensor(62.3634)	Mv Bdry Los
s: tensor(2.3567e+11)			
Iteration: 11800	Total Loss: tensor(2.4626e+11)		
IC Loss: tensor(0.4848)	BC Loss: tensor(1.1162e-11)	NS PDE Loss: tensor(62.3646)	Mv Bdry Los
s: tensor(2.4626e+11)			
Iteration: 12000	Total Loss: tensor(2.3483e+11)		
IC Loss: tensor(0.4847)	BC Loss: tensor(1.1150e-11)	NS PDE Loss: tensor(62.3607)	Mv Bdry Los
s: tensor(2.3482e+11)			
Iteration: 12200	Total Loss: tensor(2.3658e+11)		
IC Loss: tensor(0.4847)	BC Loss: tensor(1.1090e-11)	NS PDE Loss: tensor(62.3593)	Mv Bdry Los
s: tensor(2.3658e+11)			
Iteration: 12400	Total Loss: tensor(2.3724e+11)		
IC Loss: tensor(0.4848)	BC Loss: tensor(1.1044e-11)	NS PDE Loss: tensor(62.3587)	Mv Bdry Los
s: tensor(2.3723e+11)			
Iteration: 12600	Total Loss: tensor(2.5341e+11)		

IC Loss: tensor(0.4844)	BC Loss: tensor(1.1009e-11)	NS PDE Loss: tensor(62.3555)	Mv Bdry Los
s: tensor(2.5340e+11)			
Iteration: 12800	Total Loss: tensor(2.3823e+11)		
IC Loss: tensor(0.4849)	BC Loss: tensor(1.1045e-11)	NS PDE Loss: tensor(62.3564)	Mv Bdry Los
s: tensor(2.3822e+11)			
Iteration: 13000	Total Loss: tensor(2.3290e+11)		
IC Loss: tensor(0.4848)	BC Loss: tensor(1.1015e-11)	NS PDE Loss: tensor(62.3555)	Mv Bdry Los
s: tensor(2.3290e+11)			
Iteration: 13200	Total Loss: tensor(2.4027e+11)		
IC Loss: tensor(0.4849)	BC Loss: tensor(1.1018e-11)	NS PDE Loss: tensor(62.3553)	Mv Bdry Los
s: tensor(2.4026e+11)			
Iteration: 13400	Total Loss: tensor(2.3784e+11)		
IC Loss: tensor(0.4847)	BC Loss: tensor(1.1018e-11)	NS PDE Loss: tensor(62.3534)	Mv Bdry Los
s: tensor(2.3783e+11)			
Iteration: 13600	Total Loss: tensor(2.3774e+11)		
IC Loss: tensor(0.4851)	BC Loss: tensor(1.0961e-11)	NS PDE Loss: tensor(62.3539)	Mv Bdry Los
s: tensor(2.3773e+11)			
Iteration: 13800	Total Loss: tensor(2.4578e+11)		
IC Loss: tensor(0.4849)	BC Loss: tensor(1.0792e-11)	NS PDE Loss: tensor(62.3507)	Mv Bdry Los
s: tensor(2.4577e+11)			
Iteration: 14000	Total Loss: tensor(2.3726e+11)		
IC Loss: tensor(0.4851)	BC Loss: tensor(1.0767e-11)	NS PDE Loss: tensor(62.3528)	Mv Bdry Los
s: tensor(2.3725e+11)			
Iteration: 14200	Total Loss: tensor(2.3548e+11)		
IC Loss: tensor(0.4850)	BC Loss: tensor(1.0736e-11)	NS PDE Loss: tensor(62.3518)	Mv Bdry Los
s: tensor(2.3547e+11)			
Iteration: 14400	Total Loss: tensor(3.1438e+11)		
IC Loss: tensor(0.4850)	BC Loss: tensor(1.0673e-11)	NS PDE Loss: tensor(62.3507)	Mv Bdry Los
s: tensor(3.1437e+11)			
Iteration: 14600	Total Loss: tensor(2.3097e+11)		
IC Loss: tensor(0.4850)	BC Loss: tensor(1.0661e-11)	NS PDE Loss: tensor(62.3498)	Mv Bdry Los
s: tensor(2.3097e+11)			
Iteration: 14800	Total Loss: tensor(2.3181e+11)		
IC Loss: tensor(0.4851)	BC Loss: tensor(1.0629e-11)	NS PDE Loss: tensor(62.3499)	Mv Bdry Los
s: tensor(2.3180e+11)			
Iteration: 15000	Total Loss: tensor(2.3126e+11)		
IC Loss: tensor(0.4852)	BC Loss: tensor(1.0612e-11)	NS PDE Loss: tensor(62.3507)	Mv Bdry Los
s: tensor(2.3126e+11)			
Iteration: 15200	Total Loss: tensor(2.3133e+11)		
IC Loss: tensor(0.4852)	BC Loss: tensor(1.0578e-11)	NS PDE Loss: tensor(62.3499)	Mv Bdry Los
s: tensor(2.3133e+11)			
Iteration: 15400	Total Loss: tensor(2.2905e+11)		

IC Loss: tensor(0.4852)	BC Loss: tensor(1.0686e-11)	NS PDE Loss: tensor(62.3479)	Mv Bdry Los
s: tensor(2.2904e+11)			
Iteration: 15600	Total Loss: tensor(2.2739e+11)		
IC Loss: tensor(0.4852)	BC Loss: tensor(1.0712e-11)	NS PDE Loss: tensor(62.3485)	Mv Bdry Los
s: tensor(2.2738e+11)			
Iteration: 15800	Total Loss: tensor(2.9462e+11)		
IC Loss: tensor(0.4851)	BC Loss: tensor(1.0720e-11)	NS PDE Loss: tensor(62.3481)	Mv Bdry Los
s: tensor(2.9461e+11)			
Iteration: 16000	Total Loss: tensor(2.4420e+11)		
IC Loss: tensor(0.4854)	BC Loss: tensor(1.0657e-11)	NS PDE Loss: tensor(62.3495)	Mv Bdry Los
s: tensor(2.4419e+11)			
Iteration: 16200	Total Loss: tensor(2.2586e+11)		
IC Loss: tensor(0.4854)	BC Loss: tensor(1.0651e-11)	NS PDE Loss: tensor(62.3485)	Mv Bdry Los
s: tensor(2.2586e+11)			
Iteration: 16400	Total Loss: tensor(2.2943e+11)		
IC Loss: tensor(0.4854)	BC Loss: tensor(1.0645e-11)	NS PDE Loss: tensor(62.3456)	Mv Bdry Los
s: tensor(2.2942e+11)			
Iteration: 16600	Total Loss: tensor(2.3000e+11)		
IC Loss: tensor(0.4854)	BC Loss: tensor(1.0598e-11)	NS PDE Loss: tensor(62.3485)	Mv Bdry Los
s: tensor(2.2999e+11)			
Iteration: 16800	Total Loss: tensor(2.2451e+11)		
IC Loss: tensor(0.4854)	BC Loss: tensor(1.0623e-11)	NS PDE Loss: tensor(62.3463)	Mv Bdry Los
s: tensor(2.2450e+11)			
Iteration: 17000	Total Loss: tensor(2.2393e+11)		
IC Loss: tensor(0.4855)	BC Loss: tensor(1.0598e-11)	NS PDE Loss: tensor(62.3473)	Mv Bdry Los
s: tensor(2.2392e+11)			
Iteration: 17200	Total Loss: tensor(2.2503e+11)		
IC Loss: tensor(0.4856)	BC Loss: tensor(1.0613e-11)	NS PDE Loss: tensor(62.3476)	Mv Bdry Los
s: tensor(2.2503e+11)			
Iteration: 17400	Total Loss: tensor(2.4170e+11)		
IC Loss: tensor(0.4853)	BC Loss: tensor(1.0615e-11)	NS PDE Loss: tensor(62.3428)	Mv Bdry Los
s: tensor(2.4170e+11)			
Iteration: 17600	Total Loss: tensor(2.2403e+11)		
IC Loss: tensor(0.4857)	BC Loss: tensor(1.0562e-11)	NS PDE Loss: tensor(62.3455)	Mv Bdry Los
s: tensor(2.2403e+11)			
Iteration: 17800	Total Loss: tensor(2.2194e+11)		
IC Loss: tensor(0.4859)	BC Loss: tensor(1.0601e-11)	NS PDE Loss: tensor(62.3460)	Mv Bdry Los
s: tensor(2.2193e+11)			
Iteration: 18000	Total Loss: tensor(2.2041e+11)		
IC Loss: tensor(0.4858)	BC Loss: tensor(1.0613e-11)	NS PDE Loss: tensor(62.3436)	Mv Bdry Los
s: tensor(2.2041e+11)			
Iteration: 18200	Total Loss: tensor(2.1932e+11)		

IC Loss: tensor(0.4858)	BC Loss: tensor(1.0610e-11)	NS PDE Loss: tensor(62.3431)	Mv Bdry Los
s: tensor(2.1931e+11)			
Iteration: 18400	Total Loss: tensor(2.2002e+11)		
IC Loss: tensor(0.4859)	BC Loss: tensor(1.0632e-11)	NS PDE Loss: tensor(62.3435)	Mv Bdry Los
s: tensor(2.2001e+11)			
Iteration: 18600	Total Loss: tensor(2.2657e+11)		
IC Loss: tensor(0.4859)	BC Loss: tensor(1.0628e-11)	NS PDE Loss: tensor(62.3430)	Mv Bdry Los
s: tensor(2.2656e+11)			
Iteration: 18800	Total Loss: tensor(2.1999e+11)		
IC Loss: tensor(0.4859)	BC Loss: tensor(1.0606e-11)	NS PDE Loss: tensor(62.3430)	Mv Bdry Los
s: tensor(2.1998e+11)			
Iteration: 19000	Total Loss: tensor(2.1885e+11)		
IC Loss: tensor(0.4861)	BC Loss: tensor(1.0567e-11)	NS PDE Loss: tensor(62.3436)	Mv Bdry Los
s: tensor(2.1885e+11)			
Iteration: 19200	Total Loss: tensor(2.6595e+11)		
IC Loss: tensor(0.4858)	BC Loss: tensor(1.0626e-11)	NS PDE Loss: tensor(62.3398)	Mv Bdry Los
s: tensor(2.6594e+11)			
Iteration: 19400	Total Loss: tensor(2.3836e+11)		
IC Loss: tensor(0.4860)	BC Loss: tensor(1.0601e-11)	NS PDE Loss: tensor(62.3400)	Mv Bdry Los
s: tensor(2.3836e+11)			
Iteration: 19600	Total Loss: tensor(2.3034e+11)		
IC Loss: tensor(0.4859)	BC Loss: tensor(1.0537e-11)	NS PDE Loss: tensor(62.3400)	Mv Bdry Los
s: tensor(2.3034e+11)			
Iteration: 19800	Total Loss: tensor(2.2468e+11)		
IC Loss: tensor(0.4862)	BC Loss: tensor(1.0521e-11)	NS PDE Loss: tensor(62.3436)	Mv Bdry Los
s: tensor(2.2468e+11)			
Iteration: 20000	Total Loss: tensor(2.2143e+11)		
IC Loss: tensor(0.4860)	BC Loss: tensor(1.0500e-11)	NS PDE Loss: tensor(62.3404)	Mv Bdry Los
s: tensor(2.2142e+11)			
Current Final Time: 0.1 Current Learning Rate: 4.9999999999999996e-06			
Iteration: 200	Total Loss: tensor(2.3315e+12)		
IC Loss: tensor(0.5233)	BC Loss: tensor(1.0290e-11)	NS PDE Loss: tensor(62.1877)	Mv Bdry Los
s: tensor(2.3315e+12)			
Iteration: 400	Total Loss: tensor(1.1578e+12)		
IC Loss: tensor(0.5219)	BC Loss: tensor(9.6741e-12)	NS PDE Loss: tensor(62.1721)	Mv Bdry Los
s: tensor(1.1578e+12)			
Iteration: 600	Total Loss: tensor(7.8622e+11)		
IC Loss: tensor(0.5237)	BC Loss: tensor(8.2329e-12)	NS PDE Loss: tensor(62.2578)	Mv Bdry Los
s: tensor(7.8622e+11)			
Iteration: 800	Total Loss: tensor(6.2159e+11)		
IC Loss: tensor(0.5269)	BC Loss: tensor(7.5520e-12)	NS PDE Loss: tensor(62.3239)	Mv Bdry Los
s: tensor(6.2158e+11)			

Iteration: 1000	Total Loss: tensor(5.3137e+11)		
IC Loss: tensor(0.5298)	BC Loss: tensor(7.4160e-12)	NS PDE Loss: tensor(62.3813)	Mv Bdry Los
s: tensor(5.3136e+11)			
Iteration: 1200	Total Loss: tensor(4.7481e+11)		
IC Loss: tensor(0.5313)	BC Loss: tensor(1.2095e-11)	NS PDE Loss: tensor(62.4287)	Mv Bdry Los
s: tensor(4.7480e+11)			
Iteration: 1400	Total Loss: tensor(4.3065e+11)		
IC Loss: tensor(0.5320)	BC Loss: tensor(1.6612e-11)	NS PDE Loss: tensor(62.4905)	Mv Bdry Los
s: tensor(4.3065e+11)			
Iteration: 1600	Total Loss: tensor(4.2614e+11)		
IC Loss: tensor(0.5322)	BC Loss: tensor(1.6735e-11)	NS PDE Loss: tensor(62.4890)	Mv Bdry Los
s: tensor(4.2614e+11)			
Iteration: 1800	Total Loss: tensor(4.2677e+11)		
IC Loss: tensor(0.5323)	BC Loss: tensor(1.7150e-11)	NS PDE Loss: tensor(62.4886)	Mv Bdry Los
s: tensor(4.2676e+11)			
Iteration: 2000	Total Loss: tensor(4.2128e+11)		
IC Loss: tensor(0.5324)	BC Loss: tensor(1.7423e-11)	NS PDE Loss: tensor(62.4893)	Mv Bdry Los
s: tensor(4.2128e+11)			
Iteration: 2200	Total Loss: tensor(4.2248e+11)		
IC Loss: tensor(0.5324)	BC Loss: tensor(1.7478e-11)	NS PDE Loss: tensor(62.4908)	Mv Bdry Los
s: tensor(4.2248e+11)			
Iteration: 2400	Total Loss: tensor(4.1712e+11)		
IC Loss: tensor(0.5325)	BC Loss: tensor(1.7617e-11)	NS PDE Loss: tensor(62.4910)	Mv Bdry Los
s: tensor(4.1711e+11)			
Iteration: 2600	Total Loss: tensor(4.1531e+11)		
IC Loss: tensor(0.5326)	BC Loss: tensor(1.7838e-11)	NS PDE Loss: tensor(62.4940)	Mv Bdry Los
s: tensor(4.1530e+11)			
Iteration: 2800	Total Loss: tensor(4.1715e+11)		
IC Loss: tensor(0.5327)	BC Loss: tensor(1.7769e-11)	NS PDE Loss: tensor(62.4942)	Mv Bdry Los
s: tensor(4.1714e+11)			
Iteration: 3000	Total Loss: tensor(4.1433e+11)		
IC Loss: tensor(0.5328)	BC Loss: tensor(1.8005e-11)	NS PDE Loss: tensor(62.4963)	Mv Bdry Los
s: tensor(4.1432e+11)			
Iteration: 3200	Total Loss: tensor(4.1349e+11)		
IC Loss: tensor(0.5329)	BC Loss: tensor(1.7895e-11)	NS PDE Loss: tensor(62.4976)	Mv Bdry Los
s: tensor(4.1348e+11)			
Iteration: 3400	Total Loss: tensor(4.1022e+11)		
IC Loss: tensor(0.5329)	BC Loss: tensor(1.8266e-11)	NS PDE Loss: tensor(62.4962)	Mv Bdry Los
s: tensor(4.1021e+11)			
Iteration: 3600	Total Loss: tensor(4.1042e+11)		
IC Loss: tensor(0.5332)	BC Loss: tensor(1.8283e-11)	NS PDE Loss: tensor(62.4977)	Mv Bdry Los
s: tensor(4.1041e+11)			

Iteration: 3800	Total Loss: tensor(4.0770e+11)		
IC Loss: tensor(0.5333)	BC Loss: tensor(1.8581e-11)	NS PDE Loss: tensor(62.4951)	Mv Bdry Los
s: tensor(4.0769e+11)			
Iteration: 4000	Total Loss: tensor(4.0401e+11)		
IC Loss: tensor(0.5334)	BC Loss: tensor(1.8922e-11)	NS PDE Loss: tensor(62.4978)	Mv Bdry Los
s: tensor(4.0400e+11)			
Iteration: 4200	Total Loss: tensor(4.0805e+11)		
IC Loss: tensor(0.5334)	BC Loss: tensor(1.9058e-11)	NS PDE Loss: tensor(62.4998)	Mv Bdry Los
s: tensor(4.0804e+11)			
Iteration: 4400	Total Loss: tensor(4.0410e+11)		
IC Loss: tensor(0.5335)	BC Loss: tensor(1.9448e-11)	NS PDE Loss: tensor(62.4978)	Mv Bdry Los
s: tensor(4.0409e+11)			
Iteration: 4600	Total Loss: tensor(4.0030e+11)		
IC Loss: tensor(0.5335)	BC Loss: tensor(1.9418e-11)	NS PDE Loss: tensor(62.4971)	Mv Bdry Los
s: tensor(4.0030e+11)			
Iteration: 4800	Total Loss: tensor(4.0122e+11)		
IC Loss: tensor(0.5335)	BC Loss: tensor(1.9566e-11)	NS PDE Loss: tensor(62.4989)	Mv Bdry Los
s: tensor(4.0121e+11)			
Iteration: 5000	Total Loss: tensor(3.9812e+11)		
IC Loss: tensor(0.5335)	BC Loss: tensor(1.9847e-11)	NS PDE Loss: tensor(62.4986)	Mv Bdry Los
s: tensor(3.9811e+11)			
Iteration: 5200	Total Loss: tensor(3.9607e+11)		
IC Loss: tensor(0.5336)	BC Loss: tensor(2.0174e-11)	NS PDE Loss: tensor(62.5001)	Mv Bdry Los
s: tensor(3.9607e+11)			
Iteration: 5400	Total Loss: tensor(3.9344e+11)		
IC Loss: tensor(0.5336)	BC Loss: tensor(2.0463e-11)	NS PDE Loss: tensor(62.5008)	Mv Bdry Los
s: tensor(3.9343e+11)			
Iteration: 5600	Total Loss: tensor(4.1331e+11)		
IC Loss: tensor(0.5335)	BC Loss: tensor(2.0651e-11)	NS PDE Loss: tensor(62.4994)	Mv Bdry Los
s: tensor(4.1330e+11)			
Iteration: 5800	Total Loss: tensor(3.9255e+11)		
IC Loss: tensor(0.5336)	BC Loss: tensor(2.0853e-11)	NS PDE Loss: tensor(62.4998)	Mv Bdry Los
s: tensor(3.9254e+11)			
Iteration: 6000	Total Loss: tensor(3.8880e+11)		
IC Loss: tensor(0.5337)	BC Loss: tensor(2.1139e-11)	NS PDE Loss: tensor(62.4947)	Mv Bdry Los
s: tensor(3.8880e+11)			
Iteration: 6200	Total Loss: tensor(3.8938e+11)		
IC Loss: tensor(0.5337)	BC Loss: tensor(2.1315e-11)	NS PDE Loss: tensor(62.4911)	Mv Bdry Los
s: tensor(3.8937e+11)			
Iteration: 6400	Total Loss: tensor(4.0358e+11)		
IC Loss: tensor(0.5336)	BC Loss: tensor(2.1598e-11)	NS PDE Loss: tensor(62.4899)	Mv Bdry Los
s: tensor(4.0357e+11)			

Iteration: 6600	Total Loss: tensor(3.8641e+11)		
IC Loss: tensor(0.5336)	BC Loss: tensor(2.1727e-11)	NS PDE Loss: tensor(62.4888)	Mv Bdry Los
s: tensor(3.8640e+11)			
Iteration: 6800	Total Loss: tensor(3.8282e+11)		
IC Loss: tensor(0.5336)	BC Loss: tensor(2.1911e-11)	NS PDE Loss: tensor(62.4809)	Mv Bdry Los
s: tensor(3.8281e+11)			
Iteration: 7000	Total Loss: tensor(3.9032e+11)		
IC Loss: tensor(0.5336)	BC Loss: tensor(2.2220e-11)	NS PDE Loss: tensor(62.4775)	Mv Bdry Los
s: tensor(3.9031e+11)			
Iteration: 7200	Total Loss: tensor(3.8021e+11)		
IC Loss: tensor(0.5336)	BC Loss: tensor(2.2173e-11)	NS PDE Loss: tensor(62.4734)	Mv Bdry Los
s: tensor(3.8021e+11)			
Iteration: 7400	Total Loss: tensor(3.7554e+11)		
IC Loss: tensor(0.5335)	BC Loss: tensor(2.2462e-11)	NS PDE Loss: tensor(62.4692)	Mv Bdry Los
s: tensor(3.7553e+11)			
Iteration: 7600	Total Loss: tensor(3.8032e+11)		
IC Loss: tensor(0.5335)	BC Loss: tensor(2.2555e-11)	NS PDE Loss: tensor(62.4692)	Mv Bdry Los
s: tensor(3.8031e+11)			
Iteration: 7800	Total Loss: tensor(3.7395e+11)		
IC Loss: tensor(0.5336)	BC Loss: tensor(2.2720e-11)	NS PDE Loss: tensor(62.4652)	Mv Bdry Los
s: tensor(3.7394e+11)			
Iteration: 8000	Total Loss: tensor(3.7539e+11)		
IC Loss: tensor(0.5335)	BC Loss: tensor(2.2781e-11)	NS PDE Loss: tensor(62.4635)	Mv Bdry Los
s: tensor(3.7539e+11)			
Iteration: 8200	Total Loss: tensor(3.8901e+11)		
IC Loss: tensor(0.5334)	BC Loss: tensor(2.2861e-11)	NS PDE Loss: tensor(62.4600)	Mv Bdry Los
s: tensor(3.8900e+11)			
Iteration: 8400	Total Loss: tensor(3.6895e+11)		
IC Loss: tensor(0.5335)	BC Loss: tensor(2.3001e-11)	NS PDE Loss: tensor(62.4529)	Mv Bdry Los
s: tensor(3.6894e+11)			
Iteration: 8600	Total Loss: tensor(3.6708e+11)		
IC Loss: tensor(0.5333)	BC Loss: tensor(2.3171e-11)	NS PDE Loss: tensor(62.4487)	Mv Bdry Los
s: tensor(3.6707e+11)			
Iteration: 8800	Total Loss: tensor(3.6833e+11)		
IC Loss: tensor(0.5333)	BC Loss: tensor(2.3174e-11)	NS PDE Loss: tensor(62.4458)	Mv Bdry Los
s: tensor(3.6832e+11)			
Iteration: 9000	Total Loss: tensor(3.6640e+11)		
IC Loss: tensor(0.5333)	BC Loss: tensor(2.3185e-11)	NS PDE Loss: tensor(62.4416)	Mv Bdry Los
s: tensor(3.6639e+11)			
Iteration: 9200	Total Loss: tensor(3.6166e+11)		
IC Loss: tensor(0.5333)	BC Loss: tensor(2.3275e-11)	NS PDE Loss: tensor(62.4403)	Mv Bdry Los
s: tensor(3.6165e+11)			

Iteration: 9400	Total Loss: tensor(3.6114e+11)		
IC Loss: tensor(0.5332)	BC Loss: tensor(2.3607e-11)	NS PDE Loss: tensor(62.4390)	Mv Bdry Los
s: tensor(3.6114e+11)			
Iteration: 9600	Total Loss: tensor(3.5999e+11)		
IC Loss: tensor(0.5332)	BC Loss: tensor(2.3764e-11)	NS PDE Loss: tensor(62.4355)	Mv Bdry Los
s: tensor(3.5999e+11)			
Iteration: 9800	Total Loss: tensor(3.6434e+11)		
IC Loss: tensor(0.5331)	BC Loss: tensor(2.4041e-11)	NS PDE Loss: tensor(62.4363)	Mv Bdry Los
s: tensor(3.6434e+11)			
Iteration: 10000	Total Loss: tensor(3.5407e+11)		
IC Loss: tensor(0.5330)	BC Loss: tensor(2.4068e-11)	NS PDE Loss: tensor(62.4281)	Mv Bdry Los
s: tensor(3.5406e+11)			
Iteration: 10200	Total Loss: tensor(4.0628e+11)		
IC Loss: tensor(0.5329)	BC Loss: tensor(2.4097e-11)	NS PDE Loss: tensor(62.4295)	Mv Bdry Los
s: tensor(4.0628e+11)			
Iteration: 10400	Total Loss: tensor(3.5113e+11)		
IC Loss: tensor(0.5329)	BC Loss: tensor(2.4161e-11)	NS PDE Loss: tensor(62.4268)	Mv Bdry Los
s: tensor(3.5113e+11)			
Iteration: 10600	Total Loss: tensor(3.5126e+11)		
IC Loss: tensor(0.5329)	BC Loss: tensor(2.3983e-11)	NS PDE Loss: tensor(62.4227)	Mv Bdry Los
s: tensor(3.5126e+11)			
Iteration: 10800	Total Loss: tensor(3.4865e+11)		
IC Loss: tensor(0.5328)	BC Loss: tensor(2.3991e-11)	NS PDE Loss: tensor(62.4187)	Mv Bdry Los
s: tensor(3.4865e+11)			
Iteration: 11000	Total Loss: tensor(3.5066e+11)		
IC Loss: tensor(0.5329)	BC Loss: tensor(2.4126e-11)	NS PDE Loss: tensor(62.4211)	Mv Bdry Los
s: tensor(3.5065e+11)			
Iteration: 11200	Total Loss: tensor(3.4823e+11)		
IC Loss: tensor(0.5327)	BC Loss: tensor(2.4292e-11)	NS PDE Loss: tensor(62.4144)	Mv Bdry Los
s: tensor(3.4823e+11)			
Iteration: 11400	Total Loss: tensor(3.4401e+11)		
IC Loss: tensor(0.5327)	BC Loss: tensor(2.4524e-11)	NS PDE Loss: tensor(62.4156)	Mv Bdry Los
s: tensor(3.4400e+11)			
Iteration: 11600	Total Loss: tensor(3.4742e+11)		
IC Loss: tensor(0.5326)	BC Loss: tensor(2.4777e-11)	NS PDE Loss: tensor(62.4130)	Mv Bdry Los
s: tensor(3.4741e+11)			
Iteration: 11800	Total Loss: tensor(3.5810e+11)		
IC Loss: tensor(0.5325)	BC Loss: tensor(2.4789e-11)	NS PDE Loss: tensor(62.4117)	Mv Bdry Los
s: tensor(3.5810e+11)			
Iteration: 12000	Total Loss: tensor(3.4205e+11)		
IC Loss: tensor(0.5326)	BC Loss: tensor(2.4994e-11)	NS PDE Loss: tensor(62.4111)	Mv Bdry Los
s: tensor(3.4205e+11)			

Iteration: 12200	Total Loss: tensor(3.4391e+11)		
IC Loss: tensor(0.5325)	BC Loss: tensor(2.5036e-11)	NS PDE Loss: tensor(62.4118)	Mv Bdry Los
s: tensor(3.4391e+11)			
Iteration: 12400	Total Loss: tensor(3.3825e+11)		
IC Loss: tensor(0.5325)	BC Loss: tensor(2.5187e-11)	NS PDE Loss: tensor(62.4096)	Mv Bdry Los
s: tensor(3.3824e+11)			
Iteration: 12600	Total Loss: tensor(3.3609e+11)		
IC Loss: tensor(0.5324)	BC Loss: tensor(2.5404e-11)	NS PDE Loss: tensor(62.4077)	Mv Bdry Los
s: tensor(3.3609e+11)			
Iteration: 12800	Total Loss: tensor(3.3917e+11)		
IC Loss: tensor(0.5323)	BC Loss: tensor(2.5443e-11)	NS PDE Loss: tensor(62.4081)	Mv Bdry Los
s: tensor(3.3917e+11)			
Iteration: 13000	Total Loss: tensor(3.3930e+11)		
IC Loss: tensor(0.5323)	BC Loss: tensor(2.5669e-11)	NS PDE Loss: tensor(62.4054)	Mv Bdry Los
s: tensor(3.3929e+11)			
Iteration: 13200	Total Loss: tensor(3.3217e+11)		
IC Loss: tensor(0.5323)	BC Loss: tensor(2.5576e-11)	NS PDE Loss: tensor(62.4006)	Mv Bdry Los
s: tensor(3.3216e+11)			
Iteration: 13400	Total Loss: tensor(3.8384e+11)		
IC Loss: tensor(0.5322)	BC Loss: tensor(2.5688e-11)	NS PDE Loss: tensor(62.4005)	Mv Bdry Los
s: tensor(3.8384e+11)			
Iteration: 13600	Total Loss: tensor(3.3045e+11)		
IC Loss: tensor(0.5323)	BC Loss: tensor(2.5875e-11)	NS PDE Loss: tensor(62.4009)	Mv Bdry Los
s: tensor(3.3044e+11)			
Iteration: 13800	Total Loss: tensor(3.2950e+11)		
IC Loss: tensor(0.5322)	BC Loss: tensor(2.6021e-11)	NS PDE Loss: tensor(62.3993)	Mv Bdry Los
s: tensor(3.2949e+11)			
Iteration: 14000	Total Loss: tensor(3.3070e+11)		
IC Loss: tensor(0.5321)	BC Loss: tensor(2.6008e-11)	NS PDE Loss: tensor(62.3975)	Mv Bdry Los
s: tensor(3.3069e+11)			
Iteration: 14200	Total Loss: tensor(3.3084e+11)		
IC Loss: tensor(0.5321)	BC Loss: tensor(2.6151e-11)	NS PDE Loss: tensor(62.3961)	Mv Bdry Los
s: tensor(3.3083e+11)			
Iteration: 14400	Total Loss: tensor(4.1155e+11)		
IC Loss: tensor(0.5320)	BC Loss: tensor(2.6215e-11)	NS PDE Loss: tensor(62.3972)	Mv Bdry Los
s: tensor(4.1154e+11)			
Iteration: 14600	Total Loss: tensor(3.2951e+11)		
IC Loss: tensor(0.5319)	BC Loss: tensor(2.6314e-11)	NS PDE Loss: tensor(62.3946)	Mv Bdry Los
s: tensor(3.2950e+11)			
Iteration: 14800	Total Loss: tensor(3.2345e+11)		
IC Loss: tensor(0.5319)	BC Loss: tensor(2.6474e-11)	NS PDE Loss: tensor(62.3926)	Mv Bdry Los
s: tensor(3.2344e+11)			

Iteration: 15000	Total Loss: tensor(3.2391e+11)		
IC Loss: tensor(0.5319)	BC Loss: tensor(2.6550e-11)	NS PDE Loss: tensor(62.3920)	Mv Bdry Los
s: tensor(3.2390e+11)			
Iteration: 15200	Total Loss: tensor(3.2993e+11)		
IC Loss: tensor(0.5319)	BC Loss: tensor(2.6463e-11)	NS PDE Loss: tensor(62.3916)	Mv Bdry Los
s: tensor(3.2993e+11)			
Iteration: 15400	Total Loss: tensor(3.3556e+11)		
IC Loss: tensor(0.5318)	BC Loss: tensor(2.6538e-11)	NS PDE Loss: tensor(62.3907)	Mv Bdry Los
s: tensor(3.3555e+11)			
Iteration: 15600	Total Loss: tensor(3.2336e+11)		
IC Loss: tensor(0.5317)	BC Loss: tensor(2.6686e-11)	NS PDE Loss: tensor(62.3939)	Mv Bdry Los
s: tensor(3.2335e+11)			
Iteration: 15800	Total Loss: tensor(3.2487e+11)		
IC Loss: tensor(0.5316)	BC Loss: tensor(2.6816e-11)	NS PDE Loss: tensor(62.3907)	Mv Bdry Los
s: tensor(3.2486e+11)			
Iteration: 16000	Total Loss: tensor(3.2027e+11)		
IC Loss: tensor(0.5317)	BC Loss: tensor(2.7205e-11)	NS PDE Loss: tensor(62.3892)	Mv Bdry Los
s: tensor(3.2027e+11)			
Iteration: 16200	Total Loss: tensor(3.1766e+11)		
IC Loss: tensor(0.5316)	BC Loss: tensor(2.7320e-11)	NS PDE Loss: tensor(62.3862)	Mv Bdry Los
s: tensor(3.1765e+11)			
Iteration: 16400	Total Loss: tensor(3.2011e+11)		
IC Loss: tensor(0.5316)	BC Loss: tensor(2.7384e-11)	NS PDE Loss: tensor(62.3854)	Mv Bdry Los
s: tensor(3.2010e+11)			
Iteration: 16600	Total Loss: tensor(3.1543e+11)		
IC Loss: tensor(0.5316)	BC Loss: tensor(2.7339e-11)	NS PDE Loss: tensor(62.3837)	Mv Bdry Los
s: tensor(3.1543e+11)			
Iteration: 16800	Total Loss: tensor(3.4420e+11)		
IC Loss: tensor(0.5315)	BC Loss: tensor(2.7352e-11)	NS PDE Loss: tensor(62.3863)	Mv Bdry Los
s: tensor(3.4420e+11)			
Iteration: 17000	Total Loss: tensor(3.1875e+11)		
IC Loss: tensor(0.5315)	BC Loss: tensor(2.7567e-11)	NS PDE Loss: tensor(62.3847)	Mv Bdry Los
s: tensor(3.1874e+11)			
Iteration: 17200	Total Loss: tensor(3.1758e+11)		
IC Loss: tensor(0.5315)	BC Loss: tensor(2.7563e-11)	NS PDE Loss: tensor(62.3856)	Mv Bdry Los
s: tensor(3.1758e+11)			
Iteration: 17400	Total Loss: tensor(3.1761e+11)		
IC Loss: tensor(0.5314)	BC Loss: tensor(2.7657e-11)	NS PDE Loss: tensor(62.3822)	Mv Bdry Los
s: tensor(3.1761e+11)			
Iteration: 17600	Total Loss: tensor(3.1647e+11)		
IC Loss: tensor(0.5314)	BC Loss: tensor(2.7705e-11)	NS PDE Loss: tensor(62.3832)	Mv Bdry Los
s: tensor(3.1646e+11)			

Iteration: 17800	Total Loss: tensor(3.1668e+11)		
IC Loss: tensor(0.5314)	BC Loss: tensor(2.7710e-11)	NS PDE Loss: tensor(62.3811)	Mv Bdry Los
s: tensor(3.1667e+11)			
Iteration: 18000	Total Loss: tensor(3.1218e+11)		
IC Loss: tensor(0.5314)	BC Loss: tensor(2.7740e-11)	NS PDE Loss: tensor(62.3794)	Mv Bdry Los
s: tensor(3.1217e+11)			
Iteration: 18200	Total Loss: tensor(3.1577e+11)		
IC Loss: tensor(0.5312)	BC Loss: tensor(2.7711e-11)	NS PDE Loss: tensor(62.3841)	Mv Bdry Los
s: tensor(3.1577e+11)			
Iteration: 18400	Total Loss: tensor(3.1099e+11)		
IC Loss: tensor(0.5312)	BC Loss: tensor(2.7741e-11)	NS PDE Loss: tensor(62.3791)	Mv Bdry Los
s: tensor(3.1098e+11)			
Iteration: 18600	Total Loss: tensor(3.1123e+11)		
IC Loss: tensor(0.5313)	BC Loss: tensor(2.7918e-11)	NS PDE Loss: tensor(62.3809)	Mv Bdry Los
s: tensor(3.1122e+11)			
Iteration: 18800	Total Loss: tensor(3.0649e+11)		
IC Loss: tensor(0.5312)	BC Loss: tensor(2.7962e-11)	NS PDE Loss: tensor(62.3800)	Mv Bdry Los
s: tensor(3.0649e+11)			
Iteration: 19000	Total Loss: tensor(3.0872e+11)		
IC Loss: tensor(0.5311)	BC Loss: tensor(2.8063e-11)	NS PDE Loss: tensor(62.3772)	Mv Bdry Los
s: tensor(3.0872e+11)			
Iteration: 19200	Total Loss: tensor(3.0624e+11)		
IC Loss: tensor(0.5312)	BC Loss: tensor(2.8202e-11)	NS PDE Loss: tensor(62.3782)	Mv Bdry Los
s: tensor(3.0623e+11)			
Iteration: 19400	Total Loss: tensor(3.0726e+11)		
IC Loss: tensor(0.5311)	BC Loss: tensor(2.8439e-11)	NS PDE Loss: tensor(62.3777)	Mv Bdry Los
s: tensor(3.0726e+11)			
Iteration: 19600	Total Loss: tensor(3.0568e+11)		
IC Loss: tensor(0.5310)	BC Loss: tensor(2.8608e-11)	NS PDE Loss: tensor(62.3806)	Mv Bdry Los
s: tensor(3.0567e+11)			
Iteration: 19800	Total Loss: tensor(3.0433e+11)		
IC Loss: tensor(0.5311)	BC Loss: tensor(2.8791e-11)	NS PDE Loss: tensor(62.3773)	Mv Bdry Los
s: tensor(3.0432e+11)			
Iteration: 20000	Total Loss: tensor(3.0521e+11)		
IC Loss: tensor(0.5310)	BC Loss: tensor(2.8828e-11)	NS PDE Loss: tensor(62.3756)	Mv Bdry Los
s: tensor(3.0520e+11)			
Executing Pass 4			
Current Final Time: 0.01 Current Learning Rate: 1e-06			
Iteration: 200	Total Loss: tensor(8.6694e+12)		
IC Loss: tensor(0.4565)	BC Loss: tensor(2.8813e-11)	NS PDE Loss: tensor(61.8211)	Mv Bdry Los
s: tensor(8.6694e+12)			
Iteration: 400	Total Loss: tensor(5.5981e+12)		

IC Loss: tensor(0.4597)	BC Loss: tensor(2.8735e-11)	NS PDE Loss: tensor(61.9372)	Mv Bdry Los
s: tensor(5.5981e+12)			
Iteration: 600	Total Loss: tensor(3.9074e+12)		
IC Loss: tensor(0.4605)	BC Loss: tensor(2.8729e-11)	NS PDE Loss: tensor(62.0215)	Mv Bdry Los
s: tensor(3.9074e+12)			
Iteration: 800	Total Loss: tensor(2.7451e+12)		
IC Loss: tensor(0.4590)	BC Loss: tensor(2.8569e-11)	NS PDE Loss: tensor(62.1866)	Mv Bdry Los
s: tensor(2.7451e+12)			
Iteration: 1000	Total Loss: tensor(1.9256e+12)		
IC Loss: tensor(0.4587)	BC Loss: tensor(2.8361e-11)	NS PDE Loss: tensor(62.2309)	Mv Bdry Los
s: tensor(1.9256e+12)			
Iteration: 1200	Total Loss: tensor(1.4928e+12)		
IC Loss: tensor(0.4589)	BC Loss: tensor(2.8188e-11)	NS PDE Loss: tensor(62.3153)	Mv Bdry Los
s: tensor(1.4928e+12)			
Iteration: 1400	Total Loss: tensor(1.2564e+12)		
IC Loss: tensor(0.4589)	BC Loss: tensor(2.7397e-11)	NS PDE Loss: tensor(62.4165)	Mv Bdry Los
s: tensor(1.2564e+12)			
Iteration: 1600	Total Loss: tensor(1.1141e+12)		
IC Loss: tensor(0.4585)	BC Loss: tensor(2.7087e-11)	NS PDE Loss: tensor(62.4931)	Mv Bdry Los
s: tensor(1.1141e+12)			
Iteration: 1800	Total Loss: tensor(1.0149e+12)		
IC Loss: tensor(0.4578)	BC Loss: tensor(2.5969e-11)	NS PDE Loss: tensor(62.5920)	Mv Bdry Los
s: tensor(1.0149e+12)			
Iteration: 2000	Total Loss: tensor(9.3401e+11)		
IC Loss: tensor(0.4568)	BC Loss: tensor(2.5546e-11)	NS PDE Loss: tensor(62.5629)	Mv Bdry Los
s: tensor(9.3401e+11)			
Iteration: 2200	Total Loss: tensor(8.6820e+11)		
IC Loss: tensor(0.4559)	BC Loss: tensor(2.5257e-11)	NS PDE Loss: tensor(62.5666)	Mv Bdry Los
s: tensor(8.6820e+11)			
Iteration: 2400	Total Loss: tensor(8.0897e+11)		
IC Loss: tensor(0.4550)	BC Loss: tensor(2.4821e-11)	NS PDE Loss: tensor(62.5984)	Mv Bdry Los
s: tensor(8.0896e+11)			
Iteration: 2600	Total Loss: tensor(7.5816e+11)		
IC Loss: tensor(0.4547)	BC Loss: tensor(2.4098e-11)	NS PDE Loss: tensor(62.6304)	Mv Bdry Los
s: tensor(7.5815e+11)			
Iteration: 2800	Total Loss: tensor(7.1689e+11)		
IC Loss: tensor(0.4540)	BC Loss: tensor(2.4678e-11)	NS PDE Loss: tensor(62.6693)	Mv Bdry Los
s: tensor(7.1688e+11)			
Iteration: 3000	Total Loss: tensor(6.9159e+11)		
IC Loss: tensor(0.4532)	BC Loss: tensor(2.4898e-11)	NS PDE Loss: tensor(62.6899)	Mv Bdry Los
s: tensor(6.9158e+11)			
Iteration: 3200	Total Loss: tensor(6.7512e+11)		

IC Loss: tensor(0.4527)	BC Loss: tensor(2.5325e-11)	NS PDE Loss: tensor(62.6885)	Mv Bdry Los
s: tensor(6.7512e+11)			
Iteration: 3400	Total Loss: tensor(6.6247e+11)		
IC Loss: tensor(0.4523)	BC Loss: tensor(2.6345e-11)	NS PDE Loss: tensor(62.6962)	Mv Bdry Los
s: tensor(6.6246e+11)			
Iteration: 3600	Total Loss: tensor(6.5227e+11)		
IC Loss: tensor(0.4519)	BC Loss: tensor(2.8837e-11)	NS PDE Loss: tensor(62.7083)	Mv Bdry Los
s: tensor(6.5226e+11)			
Iteration: 3800	Total Loss: tensor(6.4399e+11)		
IC Loss: tensor(0.4517)	BC Loss: tensor(3.2446e-11)	NS PDE Loss: tensor(62.7025)	Mv Bdry Los
s: tensor(6.4398e+11)			
Iteration: 4000	Total Loss: tensor(6.3670e+11)		
IC Loss: tensor(0.4515)	BC Loss: tensor(3.7462e-11)	NS PDE Loss: tensor(62.6980)	Mv Bdry Los
s: tensor(6.3669e+11)			
Iteration: 4200	Total Loss: tensor(6.3085e+11)		
IC Loss: tensor(0.4514)	BC Loss: tensor(4.2881e-11)	NS PDE Loss: tensor(62.6934)	Mv Bdry Los
s: tensor(6.3085e+11)			
Iteration: 4400	Total Loss: tensor(6.2576e+11)		
IC Loss: tensor(0.4513)	BC Loss: tensor(4.9612e-11)	NS PDE Loss: tensor(62.6897)	Mv Bdry Los
s: tensor(6.2575e+11)			
Iteration: 4600	Total Loss: tensor(6.1974e+11)		
IC Loss: tensor(0.4513)	BC Loss: tensor(5.5546e-11)	NS PDE Loss: tensor(62.6868)	Mv Bdry Los
s: tensor(6.1974e+11)			
Iteration: 4800	Total Loss: tensor(6.1464e+11)		
IC Loss: tensor(0.4512)	BC Loss: tensor(6.3099e-11)	NS PDE Loss: tensor(62.6841)	Mv Bdry Los
s: tensor(6.1463e+11)			
Iteration: 5000	Total Loss: tensor(6.1100e+11)		
IC Loss: tensor(0.4512)	BC Loss: tensor(7.0968e-11)	NS PDE Loss: tensor(62.6812)	Mv Bdry Los
s: tensor(6.1100e+11)			
Iteration: 5200	Total Loss: tensor(6.0668e+11)		
IC Loss: tensor(0.4512)	BC Loss: tensor(7.8522e-11)	NS PDE Loss: tensor(62.6784)	Mv Bdry Los
s: tensor(6.0668e+11)			
Iteration: 5400	Total Loss: tensor(6.0271e+11)		
IC Loss: tensor(0.4513)	BC Loss: tensor(8.9439e-11)	NS PDE Loss: tensor(62.6752)	Mv Bdry Los
s: tensor(6.0271e+11)			
Iteration: 5600	Total Loss: tensor(5.9820e+11)		
IC Loss: tensor(0.4512)	BC Loss: tensor(9.9653e-11)	NS PDE Loss: tensor(62.6730)	Mv Bdry Los
s: tensor(5.9819e+11)			
Iteration: 5800	Total Loss: tensor(5.9305e+11)		
IC Loss: tensor(0.4513)	BC Loss: tensor(1.1215e-10)	NS PDE Loss: tensor(62.6681)	Mv Bdry Los
s: tensor(5.9304e+11)			
Iteration: 6000	Total Loss: tensor(5.8974e+11)		

IC Loss: tensor(0.4513)	BC Loss: tensor(1.2373e-10)	NS PDE Loss: tensor(62.6649)	Mv Bdry Los
s: tensor(5.8973e+11)			
Iteration: 6200	Total Loss: tensor(5.8702e+11)		
IC Loss: tensor(0.4514)	BC Loss: tensor(1.3625e-10)	NS PDE Loss: tensor(62.6603)	Mv Bdry Los
s: tensor(5.8702e+11)			
Iteration: 6400	Total Loss: tensor(5.8262e+11)		
IC Loss: tensor(0.4515)	BC Loss: tensor(1.4872e-10)	NS PDE Loss: tensor(62.6571)	Mv Bdry Los
s: tensor(5.8261e+11)			
Iteration: 6600	Total Loss: tensor(5.7909e+11)		
IC Loss: tensor(0.4515)	BC Loss: tensor(1.6255e-10)	NS PDE Loss: tensor(62.6521)	Mv Bdry Los
s: tensor(5.7908e+11)			
Iteration: 6800	Total Loss: tensor(5.7536e+11)		
IC Loss: tensor(0.4516)	BC Loss: tensor(1.7519e-10)	NS PDE Loss: tensor(62.6473)	Mv Bdry Los
s: tensor(5.7535e+11)			
Iteration: 7000	Total Loss: tensor(5.7217e+11)		
IC Loss: tensor(0.4517)	BC Loss: tensor(1.8779e-10)	NS PDE Loss: tensor(62.6431)	Mv Bdry Los
s: tensor(5.7216e+11)			
Iteration: 7200	Total Loss: tensor(5.6923e+11)		
IC Loss: tensor(0.4518)	BC Loss: tensor(2.0212e-10)	NS PDE Loss: tensor(62.6382)	Mv Bdry Los
s: tensor(5.6922e+11)			
Iteration: 7400	Total Loss: tensor(5.6518e+11)		
IC Loss: tensor(0.4519)	BC Loss: tensor(2.1522e-10)	NS PDE Loss: tensor(62.6349)	Mv Bdry Los
s: tensor(5.6517e+11)			
Iteration: 7600	Total Loss: tensor(5.6236e+11)		
IC Loss: tensor(0.4520)	BC Loss: tensor(2.3109e-10)	NS PDE Loss: tensor(62.6319)	Mv Bdry Los
s: tensor(5.6236e+11)			
Iteration: 7800	Total Loss: tensor(5.5950e+11)		
IC Loss: tensor(0.4521)	BC Loss: tensor(2.4438e-10)	NS PDE Loss: tensor(62.6300)	Mv Bdry Los
s: tensor(5.5950e+11)			
Iteration: 8000	Total Loss: tensor(5.5743e+11)		
IC Loss: tensor(0.4522)	BC Loss: tensor(2.6142e-10)	NS PDE Loss: tensor(62.6271)	Mv Bdry Los
s: tensor(5.5742e+11)			
Iteration: 8200	Total Loss: tensor(5.5379e+11)		
IC Loss: tensor(0.4523)	BC Loss: tensor(2.7624e-10)	NS PDE Loss: tensor(62.6249)	Mv Bdry Los
s: tensor(5.5378e+11)			
Iteration: 8400	Total Loss: tensor(5.4995e+11)		
IC Loss: tensor(0.4524)	BC Loss: tensor(2.9154e-10)	NS PDE Loss: tensor(62.6243)	Mv Bdry Los
s: tensor(5.4995e+11)			
Iteration: 8600	Total Loss: tensor(5.4749e+11)		
IC Loss: tensor(0.4525)	BC Loss: tensor(3.0470e-10)	NS PDE Loss: tensor(62.6225)	Mv Bdry Los
s: tensor(5.4748e+11)			
Iteration: 8800	Total Loss: tensor(5.4475e+11)		

IC Loss: tensor(0.4526)	BC Loss: tensor(3.1832e-10)	NS PDE Loss: tensor(62.6110)	Mv Bdry Los
s: tensor(5.4475e+11)			
Iteration: 9000	Total Loss: tensor(5.4142e+11)		
IC Loss: tensor(0.4527)	BC Loss: tensor(3.3025e-10)	NS PDE Loss: tensor(62.6016)	Mv Bdry Los
s: tensor(5.4141e+11)			
Iteration: 9200	Total Loss: tensor(5.3825e+11)		
IC Loss: tensor(0.4528)	BC Loss: tensor(3.4408e-10)	NS PDE Loss: tensor(62.5916)	Mv Bdry Los
s: tensor(5.3824e+11)			
Iteration: 9400	Total Loss: tensor(5.3637e+11)		
IC Loss: tensor(0.4529)	BC Loss: tensor(3.6120e-10)	NS PDE Loss: tensor(62.5811)	Mv Bdry Los
s: tensor(5.3636e+11)			
Iteration: 9600	Total Loss: tensor(5.3299e+11)		
IC Loss: tensor(0.4530)	BC Loss: tensor(3.7908e-10)	NS PDE Loss: tensor(62.5728)	Mv Bdry Los
s: tensor(5.3298e+11)			
Iteration: 9800	Total Loss: tensor(5.3022e+11)		
IC Loss: tensor(0.4531)	BC Loss: tensor(3.9790e-10)	NS PDE Loss: tensor(62.5646)	Mv Bdry Los
s: tensor(5.3022e+11)			
Iteration: 10000	Total Loss: tensor(5.2745e+11)		
IC Loss: tensor(0.4532)	BC Loss: tensor(4.1204e-10)	NS PDE Loss: tensor(62.5573)	Mv Bdry Los
s: tensor(5.2745e+11)			
Iteration: 10200	Total Loss: tensor(5.2543e+11)		
IC Loss: tensor(0.4533)	BC Loss: tensor(4.2632e-10)	NS PDE Loss: tensor(62.5511)	Mv Bdry Los
s: tensor(5.2542e+11)			
Iteration: 10400	Total Loss: tensor(5.2258e+11)		
IC Loss: tensor(0.4534)	BC Loss: tensor(4.4442e-10)	NS PDE Loss: tensor(62.5442)	Mv Bdry Los
s: tensor(5.2257e+11)			
Iteration: 10600	Total Loss: tensor(5.2016e+11)		
IC Loss: tensor(0.4535)	BC Loss: tensor(4.5881e-10)	NS PDE Loss: tensor(62.5378)	Mv Bdry Los
s: tensor(5.2015e+11)			
Iteration: 10800	Total Loss: tensor(5.1724e+11)		
IC Loss: tensor(0.4536)	BC Loss: tensor(4.7741e-10)	NS PDE Loss: tensor(62.5321)	Mv Bdry Los
s: tensor(5.1724e+11)			
Iteration: 11000	Total Loss: tensor(5.1462e+11)		
IC Loss: tensor(0.4537)	BC Loss: tensor(4.9524e-10)	NS PDE Loss: tensor(62.5265)	Mv Bdry Los
s: tensor(5.1461e+11)			
Iteration: 11200	Total Loss: tensor(5.1182e+11)		
IC Loss: tensor(0.4538)	BC Loss: tensor(5.1231e-10)	NS PDE Loss: tensor(62.5213)	Mv Bdry Los
s: tensor(5.1181e+11)			
Iteration: 11400	Total Loss: tensor(5.0914e+11)		
IC Loss: tensor(0.4538)	BC Loss: tensor(5.3038e-10)	NS PDE Loss: tensor(62.5170)	Mv Bdry Los
s: tensor(5.0913e+11)			
Iteration: 11600	Total Loss: tensor(5.0669e+11)		

IC Loss: tensor(0.4539)	BC Loss: tensor(5.4790e-10)	NS PDE Loss: tensor(62.5113)	Mv Bdry Los
s: tensor(5.0668e+11)			
Iteration: 11800	Total Loss: tensor(5.0423e+11)		
IC Loss: tensor(0.4540)	BC Loss: tensor(5.6598e-10)	NS PDE Loss: tensor(62.5065)	Mv Bdry Los
s: tensor(5.0423e+11)			
Iteration: 12000	Total Loss: tensor(5.0167e+11)		
IC Loss: tensor(0.4540)	BC Loss: tensor(5.8501e-10)	NS PDE Loss: tensor(62.5022)	Mv Bdry Los
s: tensor(5.0167e+11)			
Iteration: 12200	Total Loss: tensor(4.9932e+11)		
IC Loss: tensor(0.4541)	BC Loss: tensor(5.9592e-10)	NS PDE Loss: tensor(62.4972)	Mv Bdry Los
s: tensor(4.9932e+11)			
Iteration: 12400	Total Loss: tensor(4.9719e+11)		
IC Loss: tensor(0.4542)	BC Loss: tensor(6.0846e-10)	NS PDE Loss: tensor(62.4933)	Mv Bdry Los
s: tensor(4.9719e+11)			
Iteration: 12600	Total Loss: tensor(4.9462e+11)		
IC Loss: tensor(0.4542)	BC Loss: tensor(6.3166e-10)	NS PDE Loss: tensor(62.4886)	Mv Bdry Los
s: tensor(4.9461e+11)			
Iteration: 12800	Total Loss: tensor(4.9205e+11)		
IC Loss: tensor(0.4543)	BC Loss: tensor(6.4759e-10)	NS PDE Loss: tensor(62.4845)	Mv Bdry Los
s: tensor(4.9205e+11)			
Iteration: 13000	Total Loss: tensor(4.8970e+11)		
IC Loss: tensor(0.4543)	BC Loss: tensor(6.6502e-10)	NS PDE Loss: tensor(62.4799)	Mv Bdry Los
s: tensor(4.8970e+11)			
Iteration: 13200	Total Loss: tensor(4.8713e+11)		
IC Loss: tensor(0.4544)	BC Loss: tensor(6.8164e-10)	NS PDE Loss: tensor(62.4768)	Mv Bdry Los
s: tensor(4.8713e+11)			
Iteration: 13400	Total Loss: tensor(4.8490e+11)		
IC Loss: tensor(0.4544)	BC Loss: tensor(7.0079e-10)	NS PDE Loss: tensor(62.4738)	Mv Bdry Los
s: tensor(4.8489e+11)			
Iteration: 13600	Total Loss: tensor(4.8218e+11)		
IC Loss: tensor(0.4545)	BC Loss: tensor(7.1237e-10)	NS PDE Loss: tensor(62.4701)	Mv Bdry Los
s: tensor(4.8217e+11)			
Iteration: 13800	Total Loss: tensor(4.8022e+11)		
IC Loss: tensor(0.4545)	BC Loss: tensor(7.2839e-10)	NS PDE Loss: tensor(62.4666)	Mv Bdry Los
s: tensor(4.8022e+11)			
Iteration: 14000	Total Loss: tensor(4.7749e+11)		
IC Loss: tensor(0.4546)	BC Loss: tensor(7.5293e-10)	NS PDE Loss: tensor(62.4637)	Mv Bdry Los
s: tensor(4.7748e+11)			
Iteration: 14200	Total Loss: tensor(4.7532e+11)		
IC Loss: tensor(0.4546)	BC Loss: tensor(7.6733e-10)	NS PDE Loss: tensor(62.4613)	Mv Bdry Los
s: tensor(4.7532e+11)			
Iteration: 14400	Total Loss: tensor(4.7272e+11)		

IC Loss: tensor(0.4547)	BC Loss: tensor(7.8142e-10)	NS PDE Loss: tensor(62.4592)	Mv Bdry Los
s: tensor(4.7272e+11)			
Iteration: 14600	Total Loss: tensor(4.7065e+11)		
IC Loss: tensor(0.4547)	BC Loss: tensor(7.9111e-10)	NS PDE Loss: tensor(62.4570)	Mv Bdry Los
s: tensor(4.7064e+11)			
Iteration: 14800	Total Loss: tensor(4.6859e+11)		
IC Loss: tensor(0.4548)	BC Loss: tensor(8.0430e-10)	NS PDE Loss: tensor(62.4542)	Mv Bdry Los
s: tensor(4.6858e+11)			
Iteration: 15000	Total Loss: tensor(4.6618e+11)		
IC Loss: tensor(0.4549)	BC Loss: tensor(8.1646e-10)	NS PDE Loss: tensor(62.4521)	Mv Bdry Los
s: tensor(4.6618e+11)			
Iteration: 15200	Total Loss: tensor(4.6402e+11)		
IC Loss: tensor(0.4549)	BC Loss: tensor(8.2873e-10)	NS PDE Loss: tensor(62.4505)	Mv Bdry Los
s: tensor(4.6402e+11)			
Iteration: 15400	Total Loss: tensor(4.6214e+11)		
IC Loss: tensor(0.4550)	BC Loss: tensor(8.4161e-10)	NS PDE Loss: tensor(62.4478)	Mv Bdry Los
s: tensor(4.6214e+11)			
Iteration: 15600	Total Loss: tensor(4.5932e+11)		
IC Loss: tensor(0.4550)	BC Loss: tensor(8.5986e-10)	NS PDE Loss: tensor(62.4459)	Mv Bdry Los
s: tensor(4.5931e+11)			
Iteration: 15800	Total Loss: tensor(4.5734e+11)		
IC Loss: tensor(0.4550)	BC Loss: tensor(8.7194e-10)	NS PDE Loss: tensor(62.4443)	Mv Bdry Los
s: tensor(4.5733e+11)			
Iteration: 16000	Total Loss: tensor(4.5499e+11)		
IC Loss: tensor(0.4551)	BC Loss: tensor(8.8449e-10)	NS PDE Loss: tensor(62.4427)	Mv Bdry Los
s: tensor(4.5498e+11)			
Iteration: 16200	Total Loss: tensor(4.5275e+11)		
IC Loss: tensor(0.4551)	BC Loss: tensor(8.9702e-10)	NS PDE Loss: tensor(62.4414)	Mv Bdry Los
s: tensor(4.5275e+11)			
Iteration: 16400	Total Loss: tensor(4.5046e+11)		
IC Loss: tensor(0.4552)	BC Loss: tensor(9.0668e-10)	NS PDE Loss: tensor(62.4406)	Mv Bdry Los
s: tensor(4.5046e+11)			
Iteration: 16600	Total Loss: tensor(4.4813e+11)		
IC Loss: tensor(0.4552)	BC Loss: tensor(9.1563e-10)	NS PDE Loss: tensor(62.4391)	Mv Bdry Los
s: tensor(4.4813e+11)			
Iteration: 16800	Total Loss: tensor(4.4597e+11)		
IC Loss: tensor(0.4552)	BC Loss: tensor(9.2812e-10)	NS PDE Loss: tensor(62.4382)	Mv Bdry Los
s: tensor(4.4597e+11)			
Iteration: 17000	Total Loss: tensor(4.4391e+11)		
IC Loss: tensor(0.4552)	BC Loss: tensor(9.3882e-10)	NS PDE Loss: tensor(62.4364)	Mv Bdry Los
s: tensor(4.4390e+11)			
Iteration: 17200	Total Loss: tensor(4.4242e+11)		

IC Loss: tensor(0.4553)	BC Loss: tensor(9.4704e-10)	NS PDE Loss: tensor(62.4349)	Mv Bdry Los
s: tensor(4.4241e+11)			
Iteration: 17400	Total Loss: tensor(4.3970e+11)		
IC Loss: tensor(0.4553)	BC Loss: tensor(9.6050e-10)	NS PDE Loss: tensor(62.4337)	Mv Bdry Los
s: tensor(4.3970e+11)			
Iteration: 17600	Total Loss: tensor(4.3805e+11)		
IC Loss: tensor(0.4553)	BC Loss: tensor(9.7396e-10)	NS PDE Loss: tensor(62.4321)	Mv Bdry Los
s: tensor(4.3804e+11)			
Iteration: 17800	Total Loss: tensor(4.3555e+11)		
IC Loss: tensor(0.4554)	BC Loss: tensor(9.8833e-10)	NS PDE Loss: tensor(62.4305)	Mv Bdry Los
s: tensor(4.3555e+11)			
Iteration: 18000	Total Loss: tensor(4.3352e+11)		
IC Loss: tensor(0.4554)	BC Loss: tensor(9.9592e-10)	NS PDE Loss: tensor(62.4296)	Mv Bdry Los
s: tensor(4.3351e+11)			
Iteration: 18200	Total Loss: tensor(4.3166e+11)		
IC Loss: tensor(0.4554)	BC Loss: tensor(1.0014e-09)	NS PDE Loss: tensor(62.4283)	Mv Bdry Los
s: tensor(4.3166e+11)			
Iteration: 18400	Total Loss: tensor(4.2899e+11)		
IC Loss: tensor(0.4554)	BC Loss: tensor(1.0130e-09)	NS PDE Loss: tensor(62.4274)	Mv Bdry Los
s: tensor(4.2899e+11)			
Iteration: 18600	Total Loss: tensor(4.2718e+11)		
IC Loss: tensor(0.4554)	BC Loss: tensor(1.0277e-09)	NS PDE Loss: tensor(62.4273)	Mv Bdry Los
s: tensor(4.2718e+11)			
Iteration: 18800	Total Loss: tensor(4.2523e+11)		
IC Loss: tensor(0.4555)	BC Loss: tensor(1.0355e-09)	NS PDE Loss: tensor(62.4263)	Mv Bdry Los
s: tensor(4.2522e+11)			
Iteration: 19000	Total Loss: tensor(4.2302e+11)		
IC Loss: tensor(0.4555)	BC Loss: tensor(1.0443e-09)	NS PDE Loss: tensor(62.4260)	Mv Bdry Los
s: tensor(4.2301e+11)			
Iteration: 19200	Total Loss: tensor(4.2122e+11)		
IC Loss: tensor(0.4555)	BC Loss: tensor(1.0520e-09)	NS PDE Loss: tensor(62.4249)	Mv Bdry Los
s: tensor(4.2122e+11)			
Iteration: 19400	Total Loss: tensor(4.1945e+11)		
IC Loss: tensor(0.4555)	BC Loss: tensor(1.0605e-09)	NS PDE Loss: tensor(62.4244)	Mv Bdry Los
s: tensor(4.1945e+11)			
Iteration: 19600	Total Loss: tensor(4.1781e+11)		
IC Loss: tensor(0.4556)	BC Loss: tensor(1.0662e-09)	NS PDE Loss: tensor(62.4240)	Mv Bdry Los
s: tensor(4.1780e+11)			
Iteration: 19800	Total Loss: tensor(4.1505e+11)		
IC Loss: tensor(0.4556)	BC Loss: tensor(1.0854e-09)	NS PDE Loss: tensor(62.4228)	Mv Bdry Los
s: tensor(4.1504e+11)			
Iteration: 20000	Total Loss: tensor(4.1310e+11)		

IC Loss: tensor(0.4556)	BC Loss: tensor(1.1016e-09)	NS PDE Loss: tensor(62.4203)	Mv Bdry Los
s: tensor(4.1310e+11)			
Current Final Time: 0.1 Current Learning Rate: 1e-06			
Iteration: 200 Total Loss: tensor(1.6107e+13)			
IC Loss: tensor(0.5338)	BC Loss: tensor(1.1020e-09)	NS PDE Loss: tensor(63.8770)	Mv Bdry Los
s: tensor(1.6107e+13)			
Iteration: 400 Total Loss: tensor(7.9998e+12)			
IC Loss: tensor(0.5286)	BC Loss: tensor(1.1019e-09)	NS PDE Loss: tensor(64.6445)	Mv Bdry Los
s: tensor(7.9998e+12)			
Iteration: 600 Total Loss: tensor(5.8612e+12)			
IC Loss: tensor(0.5290)	BC Loss: tensor(1.1019e-09)	NS PDE Loss: tensor(64.6403)	Mv Bdry Los
s: tensor(5.8612e+12)			
Iteration: 800 Total Loss: tensor(5.0457e+12)			
IC Loss: tensor(0.5292)	BC Loss: tensor(1.1014e-09)	NS PDE Loss: tensor(64.5614)	Mv Bdry Los
s: tensor(5.0457e+12)			
Iteration: 1000 Total Loss: tensor(4.6279e+12)			
IC Loss: tensor(0.5295)	BC Loss: tensor(1.1010e-09)	NS PDE Loss: tensor(64.4480)	Mv Bdry Los
s: tensor(4.6279e+12)			
Iteration: 1200 Total Loss: tensor(4.2950e+12)			
IC Loss: tensor(0.5299)	BC Loss: tensor(1.0987e-09)	NS PDE Loss: tensor(64.3157)	Mv Bdry Los
s: tensor(4.2950e+12)			
Iteration: 1400 Total Loss: tensor(2.4997e+12)			
IC Loss: tensor(0.5292)	BC Loss: tensor(1.0979e-09)	NS PDE Loss: tensor(64.1281)	Mv Bdry Los
s: tensor(2.4997e+12)			
Iteration: 1600 Total Loss: tensor(2.1238e+12)			
IC Loss: tensor(0.5295)	BC Loss: tensor(1.0979e-09)	NS PDE Loss: tensor(64.1391)	Mv Bdry Los
s: tensor(2.1238e+12)			
Iteration: 1800 Total Loss: tensor(2.1325e+12)			
IC Loss: tensor(0.5297)	BC Loss: tensor(1.0979e-09)	NS PDE Loss: tensor(64.1467)	Mv Bdry Los
s: tensor(2.1325e+12)			
Iteration: 2000 Total Loss: tensor(2.0346e+12)			
IC Loss: tensor(0.5301)	BC Loss: tensor(1.0979e-09)	NS PDE Loss: tensor(64.1541)	Mv Bdry Los
s: tensor(2.0346e+12)			
Iteration: 2200 Total Loss: tensor(1.9256e+12)			
IC Loss: tensor(0.5301)	BC Loss: tensor(1.0979e-09)	NS PDE Loss: tensor(64.1484)	Mv Bdry Los
s: tensor(1.9256e+12)			
Iteration: 2400 Total Loss: tensor(1.8813e+12)			
IC Loss: tensor(0.5303)	BC Loss: tensor(1.0979e-09)	NS PDE Loss: tensor(64.1382)	Mv Bdry Los
s: tensor(1.8813e+12)			
Iteration: 2600 Total Loss: tensor(1.8297e+12)			
IC Loss: tensor(0.5304)	BC Loss: tensor(1.0979e-09)	NS PDE Loss: tensor(64.1339)	Mv Bdry Los
s: tensor(1.8297e+12)			

Iteration: 2800	Total Loss: tensor(1.8355e+12)		
IC Loss: tensor(0.5304)	BC Loss: tensor(1.0978e-09)	NS PDE Loss: tensor(64.1288)	Mv Bdry Los
s: tensor(1.8355e+12)			
Iteration: 3000	Total Loss: tensor(1.7764e+12)		
IC Loss: tensor(0.5305)	BC Loss: tensor(1.0978e-09)	NS PDE Loss: tensor(64.1262)	Mv Bdry Los
s: tensor(1.7764e+12)			
Iteration: 3200	Total Loss: tensor(1.7839e+12)		
IC Loss: tensor(0.5305)	BC Loss: tensor(1.0978e-09)	NS PDE Loss: tensor(64.1247)	Mv Bdry Los
s: tensor(1.7839e+12)			
Iteration: 3400	Total Loss: tensor(1.7847e+12)		
IC Loss: tensor(0.5305)	BC Loss: tensor(1.0978e-09)	NS PDE Loss: tensor(64.1243)	Mv Bdry Los
s: tensor(1.7847e+12)			
Iteration: 3600	Total Loss: tensor(1.7217e+12)		
IC Loss: tensor(0.5306)	BC Loss: tensor(1.0978e-09)	NS PDE Loss: tensor(64.1241)	Mv Bdry Los
s: tensor(1.7217e+12)			
Iteration: 3800	Total Loss: tensor(1.7080e+12)		
IC Loss: tensor(0.5306)	BC Loss: tensor(1.0978e-09)	NS PDE Loss: tensor(64.1236)	Mv Bdry Los
s: tensor(1.7080e+12)			
Iteration: 4000	Total Loss: tensor(1.6834e+12)		
IC Loss: tensor(0.5307)	BC Loss: tensor(1.0977e-09)	NS PDE Loss: tensor(64.1236)	Mv Bdry Los
s: tensor(1.6834e+12)			
Iteration: 4200	Total Loss: tensor(2.0086e+12)		
IC Loss: tensor(0.5307)	BC Loss: tensor(1.0977e-09)	NS PDE Loss: tensor(64.1225)	Mv Bdry Los
s: tensor(2.0086e+12)			
Iteration: 4400	Total Loss: tensor(1.6705e+12)		
IC Loss: tensor(0.5307)	BC Loss: tensor(1.0977e-09)	NS PDE Loss: tensor(64.1223)	Mv Bdry Los
s: tensor(1.6705e+12)			
Iteration: 4600	Total Loss: tensor(1.6460e+12)		
IC Loss: tensor(0.5308)	BC Loss: tensor(1.0977e-09)	NS PDE Loss: tensor(64.1218)	Mv Bdry Los
s: tensor(1.6460e+12)			
Iteration: 4800	Total Loss: tensor(1.6361e+12)		
IC Loss: tensor(0.5308)	BC Loss: tensor(1.0977e-09)	NS PDE Loss: tensor(64.1214)	Mv Bdry Los
s: tensor(1.6361e+12)			
Iteration: 5000	Total Loss: tensor(1.8543e+12)		
IC Loss: tensor(0.5309)	BC Loss: tensor(1.0977e-09)	NS PDE Loss: tensor(64.1212)	Mv Bdry Los
s: tensor(1.8542e+12)			
Iteration: 5200	Total Loss: tensor(1.6050e+12)		
IC Loss: tensor(0.5309)	BC Loss: tensor(1.0977e-09)	NS PDE Loss: tensor(64.1217)	Mv Bdry Los
s: tensor(1.6050e+12)			
Iteration: 5400	Total Loss: tensor(1.8501e+12)		
IC Loss: tensor(0.5310)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1231)	Mv Bdry Los
s: tensor(1.8501e+12)			

Iteration: 5600	Total Loss: tensor(1.6754e+12)		
IC Loss: tensor(0.5310)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1228)	Mv Bdry Los
s: tensor(1.6754e+12)			
Iteration: 5800	Total Loss: tensor(1.5823e+12)		
IC Loss: tensor(0.5310)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1235)	Mv Bdry Los
s: tensor(1.5823e+12)			
Iteration: 6000	Total Loss: tensor(1.5836e+12)		
IC Loss: tensor(0.5311)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1235)	Mv Bdry Los
s: tensor(1.5835e+12)			
Iteration: 6200	Total Loss: tensor(1.6085e+12)		
IC Loss: tensor(0.5311)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1244)	Mv Bdry Los
s: tensor(1.6085e+12)			
Iteration: 6400	Total Loss: tensor(1.6409e+12)		
IC Loss: tensor(0.5311)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1249)	Mv Bdry Los
s: tensor(1.6409e+12)			
Iteration: 6600	Total Loss: tensor(1.6733e+12)		
IC Loss: tensor(0.5311)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1253)	Mv Bdry Los
s: tensor(1.6733e+12)			
Iteration: 6800	Total Loss: tensor(1.6302e+12)		
IC Loss: tensor(0.5311)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1255)	Mv Bdry Los
s: tensor(1.6302e+12)			
Iteration: 7000	Total Loss: tensor(1.6692e+12)		
IC Loss: tensor(0.5312)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1259)	Mv Bdry Los
s: tensor(1.6692e+12)			
Iteration: 7200	Total Loss: tensor(1.6168e+12)		
IC Loss: tensor(0.5312)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1260)	Mv Bdry Los
s: tensor(1.6168e+12)			
Iteration: 7400	Total Loss: tensor(1.5797e+12)		
IC Loss: tensor(0.5312)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1263)	Mv Bdry Los
s: tensor(1.5797e+12)			
Iteration: 7600	Total Loss: tensor(1.6372e+12)		
IC Loss: tensor(0.5313)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1262)	Mv Bdry Los
s: tensor(1.6372e+12)			
Iteration: 7800	Total Loss: tensor(1.5375e+12)		
IC Loss: tensor(0.5313)	BC Loss: tensor(1.0976e-09)	NS PDE Loss: tensor(64.1259)	Mv Bdry Los
s: tensor(1.5375e+12)			
Iteration: 8000	Total Loss: tensor(1.5402e+12)		
IC Loss: tensor(0.5313)	BC Loss: tensor(1.0975e-09)	NS PDE Loss: tensor(64.1253)	Mv Bdry Los
s: tensor(1.5402e+12)			
Iteration: 8200	Total Loss: tensor(1.5364e+12)		
IC Loss: tensor(0.5313)	BC Loss: tensor(1.0975e-09)	NS PDE Loss: tensor(64.1252)	Mv Bdry Los
s: tensor(1.5364e+12)			

Iteration: 8400	Total Loss: tensor(1.5502e+12)		
IC Loss: tensor(0.5313)	BC Loss: tensor(1.0975e-09)	NS PDE Loss: tensor(64.1250)	Mv Bdry Los
s: tensor(1.5502e+12)			
Iteration: 8600	Total Loss: tensor(1.5661e+12)		
IC Loss: tensor(0.5313)	BC Loss: tensor(1.0975e-09)	NS PDE Loss: tensor(64.1250)	Mv Bdry Los
s: tensor(1.5661e+12)			
Iteration: 8800	Total Loss: tensor(1.5192e+12)		
IC Loss: tensor(0.5314)	BC Loss: tensor(1.0975e-09)	NS PDE Loss: tensor(64.1245)	Mv Bdry Los
s: tensor(1.5192e+12)			
Iteration: 9000	Total Loss: tensor(1.5300e+12)		
IC Loss: tensor(0.5314)	BC Loss: tensor(1.0975e-09)	NS PDE Loss: tensor(64.1238)	Mv Bdry Los
s: tensor(1.5300e+12)			
Iteration: 9200	Total Loss: tensor(1.9743e+12)		
IC Loss: tensor(0.5315)	BC Loss: tensor(1.0975e-09)	NS PDE Loss: tensor(64.1224)	Mv Bdry Los
s: tensor(1.9743e+12)			
Iteration: 9400	Total Loss: tensor(1.5940e+12)		
IC Loss: tensor(0.5315)	BC Loss: tensor(1.0975e-09)	NS PDE Loss: tensor(64.1230)	Mv Bdry Los
s: tensor(1.5940e+12)			
Iteration: 9600	Total Loss: tensor(1.5076e+12)		
IC Loss: tensor(0.5316)	BC Loss: tensor(1.0975e-09)	NS PDE Loss: tensor(64.1223)	Mv Bdry Los
s: tensor(1.5076e+12)			
Iteration: 9800	Total Loss: tensor(1.4705e+12)		
IC Loss: tensor(0.5316)	BC Loss: tensor(1.0974e-09)	NS PDE Loss: tensor(64.1217)	Mv Bdry Los
s: tensor(1.4705e+12)			
Iteration: 10000	Total Loss: tensor(1.5238e+12)		
IC Loss: tensor(0.5316)	BC Loss: tensor(1.0974e-09)	NS PDE Loss: tensor(64.1222)	Mv Bdry Los
s: tensor(1.5238e+12)			
Iteration: 10200	Total Loss: tensor(1.4568e+12)		
IC Loss: tensor(0.5317)	BC Loss: tensor(1.0974e-09)	NS PDE Loss: tensor(64.1218)	Mv Bdry Los
s: tensor(1.4568e+12)			
Iteration: 10400	Total Loss: tensor(1.4699e+12)		
IC Loss: tensor(0.5317)	BC Loss: tensor(1.0974e-09)	NS PDE Loss: tensor(64.1216)	Mv Bdry Los
s: tensor(1.4699e+12)			
Iteration: 10600	Total Loss: tensor(1.4555e+12)		
IC Loss: tensor(0.5317)	BC Loss: tensor(1.0974e-09)	NS PDE Loss: tensor(64.1212)	Mv Bdry Los
s: tensor(1.4555e+12)			
Iteration: 10800	Total Loss: tensor(1.4639e+12)		
IC Loss: tensor(0.5317)	BC Loss: tensor(1.0974e-09)	NS PDE Loss: tensor(64.1212)	Mv Bdry Los
s: tensor(1.4639e+12)			
Iteration: 11000	Total Loss: tensor(1.5113e+12)		
IC Loss: tensor(0.5318)	BC Loss: tensor(1.0974e-09)	NS PDE Loss: tensor(64.1215)	Mv Bdry Los
s: tensor(1.5113e+12)			

Iteration: 11200	Total Loss: tensor(1.5419e+12)		
IC Loss: tensor(0.5318)	BC Loss: tensor(1.0973e-09)	NS PDE Loss: tensor(64.1210)	Mv Bdry Los
s: tensor(1.5419e+12)			
Iteration: 11400	Total Loss: tensor(1.5170e+12)		
IC Loss: tensor(0.5318)	BC Loss: tensor(1.0973e-09)	NS PDE Loss: tensor(64.1207)	Mv Bdry Los
s: tensor(1.5170e+12)			
Iteration: 11600	Total Loss: tensor(1.5213e+12)		
IC Loss: tensor(0.5318)	BC Loss: tensor(1.0974e-09)	NS PDE Loss: tensor(64.1216)	Mv Bdry Los
s: tensor(1.5212e+12)			
Iteration: 11800	Total Loss: tensor(1.5015e+12)		
IC Loss: tensor(0.5319)	BC Loss: tensor(1.0973e-09)	NS PDE Loss: tensor(64.1214)	Mv Bdry Los
s: tensor(1.5015e+12)			
Iteration: 12000	Total Loss: tensor(1.4274e+12)		
IC Loss: tensor(0.5319)	BC Loss: tensor(1.0973e-09)	NS PDE Loss: tensor(64.1210)	Mv Bdry Los
s: tensor(1.4274e+12)			
Iteration: 12200	Total Loss: tensor(1.4526e+12)		
IC Loss: tensor(0.5319)	BC Loss: tensor(1.0973e-09)	NS PDE Loss: tensor(64.1217)	Mv Bdry Los
s: tensor(1.4526e+12)			
Iteration: 12400	Total Loss: tensor(1.4709e+12)		
IC Loss: tensor(0.5320)	BC Loss: tensor(1.0973e-09)	NS PDE Loss: tensor(64.1214)	Mv Bdry Los
s: tensor(1.4709e+12)			
Iteration: 12600	Total Loss: tensor(2.0838e+12)		
IC Loss: tensor(0.5320)	BC Loss: tensor(1.0973e-09)	NS PDE Loss: tensor(64.1215)	Mv Bdry Los
s: tensor(2.0838e+12)			
Iteration: 12800	Total Loss: tensor(1.4168e+12)		
IC Loss: tensor(0.5320)	BC Loss: tensor(1.0973e-09)	NS PDE Loss: tensor(64.1218)	Mv Bdry Los
s: tensor(1.4168e+12)			
Iteration: 13000	Total Loss: tensor(1.4128e+12)		
IC Loss: tensor(0.5321)	BC Loss: tensor(1.0973e-09)	NS PDE Loss: tensor(64.1218)	Mv Bdry Los
s: tensor(1.4128e+12)			
Iteration: 13200	Total Loss: tensor(1.7178e+12)		
IC Loss: tensor(0.5321)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1216)	Mv Bdry Los
s: tensor(1.7178e+12)			
Iteration: 13400	Total Loss: tensor(1.5503e+12)		
IC Loss: tensor(0.5321)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1213)	Mv Bdry Los
s: tensor(1.5503e+12)			
Iteration: 13600	Total Loss: tensor(1.6120e+12)		
IC Loss: tensor(0.5322)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1213)	Mv Bdry Los
s: tensor(1.6120e+12)			
Iteration: 13800	Total Loss: tensor(1.4561e+12)		
IC Loss: tensor(0.5322)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1221)	Mv Bdry Los
s: tensor(1.4561e+12)			

Iteration: 14000	Total Loss: tensor(1.3983e+12)		
IC Loss: tensor(0.5322)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1217)	Mv Bdry Los
s: tensor(1.3983e+12)			
Iteration: 14200	Total Loss: tensor(1.4252e+12)		
IC Loss: tensor(0.5322)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1216)	Mv Bdry Los
s: tensor(1.4252e+12)			
Iteration: 14400	Total Loss: tensor(1.4071e+12)		
IC Loss: tensor(0.5322)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1211)	Mv Bdry Los
s: tensor(1.4071e+12)			
Iteration: 14600	Total Loss: tensor(1.4764e+12)		
IC Loss: tensor(0.5322)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1214)	Mv Bdry Los
s: tensor(1.4764e+12)			
Iteration: 14800	Total Loss: tensor(1.3858e+12)		
IC Loss: tensor(0.5323)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1214)	Mv Bdry Los
s: tensor(1.3858e+12)			
Iteration: 15000	Total Loss: tensor(1.3897e+12)		
IC Loss: tensor(0.5323)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1214)	Mv Bdry Los
s: tensor(1.3897e+12)			
Iteration: 15200	Total Loss: tensor(1.5076e+12)		
IC Loss: tensor(0.5323)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1206)	Mv Bdry Los
s: tensor(1.5076e+12)			
Iteration: 15400	Total Loss: tensor(1.5142e+12)		
IC Loss: tensor(0.5323)	BC Loss: tensor(1.0972e-09)	NS PDE Loss: tensor(64.1209)	Mv Bdry Los
s: tensor(1.5142e+12)			
Iteration: 15600	Total Loss: tensor(1.3899e+12)		
IC Loss: tensor(0.5323)	BC Loss: tensor(1.0971e-09)	NS PDE Loss: tensor(64.1200)	Mv Bdry Los
s: tensor(1.3899e+12)			
Iteration: 15800	Total Loss: tensor(1.3674e+12)		
IC Loss: tensor(0.5324)	BC Loss: tensor(1.0971e-09)	NS PDE Loss: tensor(64.1198)	Mv Bdry Los
s: tensor(1.3674e+12)			
Iteration: 16000	Total Loss: tensor(1.5039e+12)		
IC Loss: tensor(0.5324)	BC Loss: tensor(1.0971e-09)	NS PDE Loss: tensor(64.1191)	Mv Bdry Los
s: tensor(1.5039e+12)			
Iteration: 16200	Total Loss: tensor(1.8665e+12)		
IC Loss: tensor(0.5324)	BC Loss: tensor(1.0971e-09)	NS PDE Loss: tensor(64.1183)	Mv Bdry Los
s: tensor(1.8665e+12)			
Iteration: 16400	Total Loss: tensor(1.3534e+12)		
IC Loss: tensor(0.5324)	BC Loss: tensor(1.0971e-09)	NS PDE Loss: tensor(64.1189)	Mv Bdry Los
s: tensor(1.3534e+12)			
Iteration: 16600	Total Loss: tensor(1.3893e+12)		
IC Loss: tensor(0.5324)	BC Loss: tensor(1.0971e-09)	NS PDE Loss: tensor(64.1190)	Mv Bdry Los
s: tensor(1.3893e+12)			

Iteration: 16800	Total Loss: tensor(1.6591e+12)		
IC Loss: tensor(0.5325)	BC Loss: tensor(1.0971e-09)	NS PDE Loss: tensor(64.1178)	Mv Bdry Los
s: tensor(1.6591e+12)			
Iteration: 17000	Total Loss: tensor(1.4267e+12)		
IC Loss: tensor(0.5325)	BC Loss: tensor(1.0971e-09)	NS PDE Loss: tensor(64.1180)	Mv Bdry Los
s: tensor(1.4267e+12)			
Iteration: 17200	Total Loss: tensor(1.4463e+12)		
IC Loss: tensor(0.5325)	BC Loss: tensor(1.0970e-09)	NS PDE Loss: tensor(64.1175)	Mv Bdry Los
s: tensor(1.4463e+12)			
Iteration: 17400	Total Loss: tensor(1.0569e+13)		
IC Loss: tensor(0.5325)	BC Loss: tensor(1.0970e-09)	NS PDE Loss: tensor(64.1161)	Mv Bdry Los
s: tensor(1.0569e+13)			
Iteration: 17600	Total Loss: tensor(1.4674e+12)		
IC Loss: tensor(0.5325)	BC Loss: tensor(1.0970e-09)	NS PDE Loss: tensor(64.1171)	Mv Bdry Los
s: tensor(1.4674e+12)			
Iteration: 17800	Total Loss: tensor(1.3520e+12)		
IC Loss: tensor(0.5326)	BC Loss: tensor(1.0970e-09)	NS PDE Loss: tensor(64.1172)	Mv Bdry Los
s: tensor(1.3520e+12)			
Iteration: 18000	Total Loss: tensor(1.3333e+12)		
IC Loss: tensor(0.5326)	BC Loss: tensor(1.0970e-09)	NS PDE Loss: tensor(64.1176)	Mv Bdry Los
s: tensor(1.3333e+12)			
Iteration: 18200	Total Loss: tensor(1.4134e+12)		
IC Loss: tensor(0.5326)	BC Loss: tensor(1.0969e-09)	NS PDE Loss: tensor(64.1169)	Mv Bdry Los
s: tensor(1.4134e+12)			
Iteration: 18400	Total Loss: tensor(1.3270e+12)		
IC Loss: tensor(0.5326)	BC Loss: tensor(1.0969e-09)	NS PDE Loss: tensor(64.1174)	Mv Bdry Los
s: tensor(1.3270e+12)			
Iteration: 18600	Total Loss: tensor(1.3383e+12)		
IC Loss: tensor(0.5327)	BC Loss: tensor(1.0969e-09)	NS PDE Loss: tensor(64.1173)	Mv Bdry Los
s: tensor(1.3383e+12)			
Iteration: 18800	Total Loss: tensor(1.3577e+12)		
IC Loss: tensor(0.5327)	BC Loss: tensor(1.0969e-09)	NS PDE Loss: tensor(64.1171)	Mv Bdry Los
s: tensor(1.3577e+12)			
Iteration: 19000	Total Loss: tensor(1.3974e+12)		
IC Loss: tensor(0.5327)	BC Loss: tensor(1.0969e-09)	NS PDE Loss: tensor(64.1165)	Mv Bdry Los
s: tensor(1.3974e+12)			
Iteration: 19200	Total Loss: tensor(1.4535e+12)		
IC Loss: tensor(0.5328)	BC Loss: tensor(1.0968e-09)	NS PDE Loss: tensor(64.1170)	Mv Bdry Los
s: tensor(1.4535e+12)			
Iteration: 19400	Total Loss: tensor(1.3748e+12)		
IC Loss: tensor(0.5328)	BC Loss: tensor(1.0968e-09)	NS PDE Loss: tensor(64.1168)	Mv Bdry Los
s: tensor(1.3748e+12)			

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Iteration: 19600      Total Loss: tensor(1.3310e+12)
IC Loss:  tensor(0.5329)      BC Loss:  tensor(1.0968e-09)  NS PDE Loss:  tensor(64.1162)  Mv Bdry Los
s:  tensor(1.3310e+12)
Iteration: 19800      Total Loss: tensor(1.4684e+12)
IC Loss:  tensor(0.5329)      BC Loss:  tensor(1.0968e-09)  NS PDE Loss:  tensor(64.1172)  Mv Bdry Los
s:  tensor(1.4684e+12)
Iteration: 20000      Total Loss: tensor(1.4971e+12)
IC Loss:  tensor(0.5330)      BC Loss:  tensor(1.0968e-09)  NS PDE Loss:  tensor(64.1160)  Mv Bdry Los
s:  tensor(1.4971e+12)
Total Time:      32459.35774207115
Pass 1 Time:      10256.922997951508
Pass 2 Time:      17944.42311501503
Pass 3 Time:      25028.506683826447
Pass 4 Time:      32459.354799985886
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In []: