import numpy as np  
from scipy.signal import welch  
import matplotlib.pyplot as plt  
  
import matplotlib.cm as cm  
import matplotlib.tri as mtri  
from matplotlib.axis import rcParams  
from mpl\_toolkits.mplot3d import Axes3D  
from matplotlib.colors import Normalize  
from matplotlib.ticker import MultipleLocator, ScalarFormatter  
  
def interpolator(coords, val):  
 *"""Функция интерполяции"""* return scipy.interpolate.RBFInterpolator(coords, val, kernel='cubic')  
  
hl = 1 + 2  
dl = 1 + 8  
bl = 1 + 8  
  
shirina = 2 \* hl + dl  
visota = 2 \* hl + bl  
  
  
fig = plt.figure(figsize=(12, 12), dpi= 80)  
grid = plt.GridSpec(3, 3, hspace=0.5, wspace=0.5, width\_ratios=[hl/shirina, dl/shirina, hl/shirina], height\_ratios=[hl/shirina, bl/shirina, hl/shirina])  
  
  
  
x\_main = np.arange(1, dl, 1)  
y\_main = np.arange(1, bl, 1)  
  
x\_lr = np.arange(1, hl, 1)  
y\_lr = np.arange(1, bl, 1)  
  
x\_tb = np.arange(1, hl, 1)  
y\_tb = np.arange(1, dl, 1)  
  
xm, ym = np.meshgrid(x\_main, y\_main)  
xlr, ylr = np.meshgrid(x\_lr, y\_lr)  
xtb, ytb = np.meshgrid(y\_tb, x\_tb)  
  
  
a1 = fig.add\_subplot(grid[0,1], xticklabels=[], yticklabels=[], xticks=[], yticks=[]) # ВВерх  
a1.scatter(xtb, ytb)  
  
a2 = fig.add\_subplot(grid[1,0], xticklabels=[], yticklabels=[], xticks=[], yticks=[]) # Лево  
a2.scatter(xlr, ylr)  
  
a3 = fig.add\_subplot(grid[1,1], xticklabels=[], yticklabels=[], xticks=[], yticks=[]) # Центр  
a3.scatter(xm, ym)  
  
a4 = fig.add\_subplot(grid[1,2], xticklabels=[], yticklabels=[], xticks=[], yticks=[]) # Право  
a4.scatter(xlr, ylr)  
  
a5 = fig.add\_subplot(grid[2,1], xticklabels=[], yticklabels=[], xticks=[], yticks=[]) # Низ  
a5.scatter(xtb, ytb)  
  
  
plt.show()  
plt.close()