

0.1 Comparison of Wang-Landau results for random Statistical Images

```
1 import numpy as np
2 from scipy import interpolate, special
3 import os, h5py, hickle
4 import matplotlib.pyplot as plt

1 import sys
2 if 'src' not in sys.path: sys.path.append('src')
3 import wanglandau as wl

1 datadir = 'data/random-images'
2 paths = [os.path.join(datadir, f) for f in os.listdir(datadir)]

1 def file_results(path):
2     with h5py.File(path, 'r') as f:
3         result = hickle.load(f)
4         Es = result['results']['Es'][:-1]
5         S = result['results']['S']
6         return Es, S - min(S)

1 for result in map(file_results, paths):
2     plt.plot(*result, 'black', alpha=0.25, linewidth=0.25)
```

