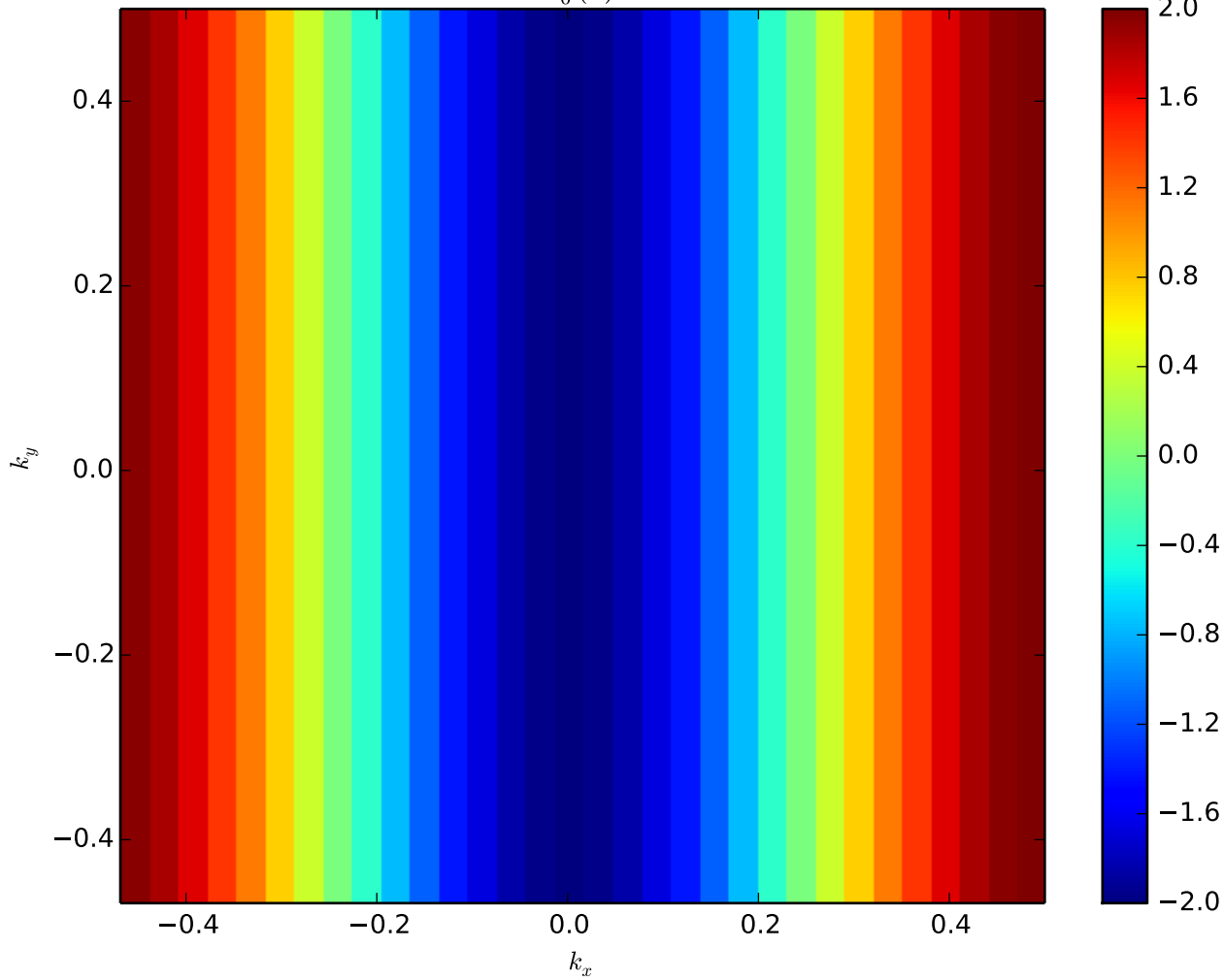


$$\epsilon_0(k)$$



l_dim.h5

Periodization

bz_grid...

bz_weights...

d = 2

eps...

g_lat...

g_lat_loc = g_lat_loc

hopping

(-1, 0)

R = (-1, 0)

h = [[-1]]

(1, 0)

R = (1, 0)

h = [[-1]]

lattice_basis

0 = [-0.5, 0.5]

lattice_vectors

0 = [1, 0, 0]

1 = [0, 200, 0]

m_lat...

n_kpts = 32

reciprocal_lattice_vectors = [[6.28318531 -0.]

[-0. 0.03141593]]

sigma_lat...

sigma_lat_loc = sigma_lat_loc

superlattice_basis

0 = [0.5, 0]

1 = [-0.5, 0]

tr_g_lat...

tr_g_lat_pade...

Results

0

Delta_sym_tau = Delta_sym_tau

G_c_iw = G_c_iw

G_sym_iw = G_sym_iw

G_sym_iw_raw = G_sym_iw_raw

G_sym_l = G_sym_l

Sigma_c_iw = Sigma_c_iw

Sigma_c_iw_raw = Sigma_c_iw_raw

```
cdmft_code_version = 1.00
density = 2.00554861453
dmu = 0
eps...
loop_time = 89.0578010082
mu = 3
n_cpu = 1
parameters...
rbz_grid...
sign = 1.0
spectrum = [0.0, 0.6055512754639887, 0.6055512754639887, 0.6055512754639887, 2.605551275463986, 2.605551275463986]
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0
```

1

```
Delta_sym_tau = Delta_sym_tau
G_c_iw = G_c_iw
G_sym_iw = G_sym_iw
G_sym_iw_raw = G_sym_iw_raw
G_sym_l = G_sym_l
Sigma_c_iw = Sigma_c_iw
Sigma_c_iw_raw = Sigma_c_iw_raw
cdmft_code_version = 1.00
density = 1.98013158279
dmu = 0
eps...
loop_time = 1421655380.94
mu = 3
n_cpu = 1
parameters...
rbz_grid...
sign = 1.0
spectrum = [0.0, 0.6055512754639887, 0.6055512754639887, 0.6055512754639887, 2.605551275463986, 2.605551275463986]
sym_indices
    0-down = [0]
    0-up = [0]
```

```

        1-down = [0]
        1-up = [0]
    triqs_code_version = 1.0
2
    Delta_sym_tau = Delta_sym_tau
    G_c_iw = G_c_iw
    G_sym_iw = G_sym_iw
    G_sym_iw_raw = G_sym_iw_raw
    G_sym_l = G_sym_l
    Sigma_c_iw = Sigma_c_iw
    Sigma_c_iw_raw = Sigma_c_iw_raw
    cdmft_code_version = 1.00
    density = 2.01654094793
    dm_u = 0
    eps...
    loop_time = 134.418996096
    mu = 3
    n_cpu = 1
    parameters...
    rbz_grid...
    sign = 1.0
    spectrum = [0.0, 0.6055512754639887, 0.6055512754639887, 0.6055512754639887, 2.605551275463986, 2.605551275463986]
    sym_indices
        0-down = [0]
        0-up = [0]
        1-down = [0]
        1-up = [0]
    triqs_code_version = 1.0
3
    Delta_sym_tau = Delta_sym_tau
    G_c_iw = G_c_iw
    G_sym_iw = G_sym_iw
    G_sym_iw_raw = G_sym_iw_raw
    G_sym_l = G_sym_l
    Sigma_c_iw = Sigma_c_iw
    Sigma_c_iw_raw = Sigma_c_iw_raw
    cdmft_code_version = 1.00
    density = 2.03470157794
    dm_u = 0
    eps...

```

```

loop_time = 1421655425.14
mu = 3
n_cpu = 1
parameters...
rbz_grid...
sign = 1.0
spectrum = [0.0, 0.6055512754639887, 0.6055512754639887, 0.6055512754639887, 2.605551275463986, 2.605551275463986]
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0

```

4

```

Delta_sym_tau = Delta_sym_tau
G_c_iw = G_c_iw
G_sym_iw = G_sym_iw
G_sym_iw_raw = G_sym_iw_raw
G_sym_l = G_sym_l
Sigma_c_iw = Sigma_c_iw
Sigma_c_iw_raw = Sigma_c_iw_raw
cdmft_code_version = 1.00
density = 1.97940043574
dmu = 0
eps...
loop_time = 178.36206007
mu = 3
n_cpu = 1
parameters...
rbz_grid...
sign = 1.0
spectrum = [0.0, 0.6055512754639887, 0.6055512754639887, 0.6055512754639887, 2.605551275463986, 2.605551275463986]
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0

```

5

```

Delta_sym_tau = Delta_sym_tau
G_c_iw = G_c_iw
G_sym_iw = G_sym_iw
G_sym_iw_raw = G_sym_iw_raw
G_sym_l = G_sym_l
Sigma_c_iw = Sigma_c_iw
Sigma_c_iw_raw = Sigma_c_iw_raw
cdmft_code_version = 1.00
density = 1.99611642468
dmu = 0
eps...
loop_time = 51.8836810589
mu = 3
n_cpu = 1
parameters...
rbz_grid...
sign = 1.0
spectrum = [0.0, 0.6055512754639887, 0.6055512754639887, 0.6055512754639887, 2.605551275463986, 2.605551275463986]
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0

```

6

```

Delta_sym_tau = Delta_sym_tau
G_c_iw = G_c_iw
G_sym_iw = G_sym_iw
G_sym_iw_raw = G_sym_iw_raw
G_sym_l = G_sym_l
Sigma_c_iw = Sigma_c_iw
Sigma_c_iw_raw = Sigma_c_iw_raw
cdmft_code_version = 1.00
density = 2.01047312151
dmu = 0
eps...
loop_time = 1421655868.87
mu = 3
n_cpu = 1
parameters...

```

```
rbz_grid...
sign = 1.0
spectrum = [0.0, 0.6055512754639887, 0.6055512754639887, 0.6055512754639887, 2.605551275463986, 2.605551275463986]
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0
```

7

```
Delta_sym_tau = Delta_sym_tau
G_c_iw = G_c_iw
G_sym_iw = G_sym_iw
G_sym_iw_raw = G_sym_iw_raw
G_sym_l = G_sym_l
Sigma_c_iw = Sigma_c_iw
Sigma_c_iw_raw = Sigma_c_iw_raw
cdmft_code_version = 1.00
density = 2.01063089856
dmu = 0
eps...
loop_time = 95.6962771416
mu = 3
n_cpu = 1
parameters...
rbz_grid...
sign = 1.0
spectrum = [0.0, 0.6055512754639887, 0.6055512754639887, 0.6055512754639887, 2.605551275463986, 2.605551275463986]
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0
```

8

```
Delta_sym_tau = Delta_sym_tau
G_c_iw = G_c_iw
G_sym_iw = G_sym_iw
G_sym_iw_raw = G_sym_iw_raw
```

```

G_sym_l = G_sym_l
Sigma_c_iw = Sigma_c_iw
Sigma_c_iw_raw = Sigma_c_iw_raw
cdmft_code_version = 1.00
density = 1.97718354332
dmu = 0
eps...
loop_time = 1421655912.72
mu = 3
n_cpu = 1
parameters...
rbz_grid...
sign = 1.0
spectrum = [0.0, 0.6055512754639887, 0.6055512754639887, 0.6055512754639887, 2.605551275463986, 2.605551275463986]
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0

```

9

```

Delta_sym_tau = Delta_sym_tau
G_c_iw = G_c_iw
G_sym_iw = G_sym_iw
G_sym_iw_raw = G_sym_iw_raw
G_sym_l = G_sym_l
Sigma_c_iw = Sigma_c_iw
Sigma_c_iw_raw = Sigma_c_iw_raw
cdmft_code_version = 1.00
density = 2.00977190484
dmu = 0
eps...
loop_time = 139.743076086
mu = 3
n_cpu = 1
parameters...
rbz_grid...
sign = 1.0
spectrum = [0.0, 0.6055512754639887, 0.6055512754639887, 0.6055512754639887, 2.605551275463986, 2.605551275463986]
sym_indices

```



```

0-down = [0]
0-up = [0]
1-down = [0]
1-up = [0]
    triqs_code_version = 1.0
n_dmft_loops = 10
parameters...
l_dim.h5
    parameters
        Sigma_c_iw = Sigma_c_iw
        archive = l_dim.h5
        beta = 20
        clipping_threshold = 0
        clustersite_pos = [[-0.25, 0], [0.25, 0]]
        density = False
        dmuf = 0
        hop
            (-1, 0)
                key = (-1, 0)
                val = [[ 0.  0.]]
            (0, 0)
                key = (0, 0)
                val = [[ 0. -1.]]
            (1, 0)
                key = (1, 0)
                val = [[ 0. -1.]]
        [ 0.  0.]]
        impose_paramagnetism = False
        lattice_vectors = [[2, 0, 0], [0, 200, 0]]
        length_cycle = 10
        make_histograms = False
        max_time = -1
        measure_g_l = True
        measure_g_tau = False
        measure_pert_order = True
        mix_coeff = 1
        mu = 3

```

```
n_cycles = 500000
n_iw = 1025
n_kpts = 32
n_legendre = 27
n_tau = 10001
n_warmup_cycles = 1000
scheme = cellular_dmft
symmetry_transformation = [[0.7071067811865475, 0.7071067811865475], [0.7071067811865475, -0.7071067811865475]]
t = -1
u = 6
use_trace_estimator = False
v = [[0, 0], [0, 0]]
verbosity =
```