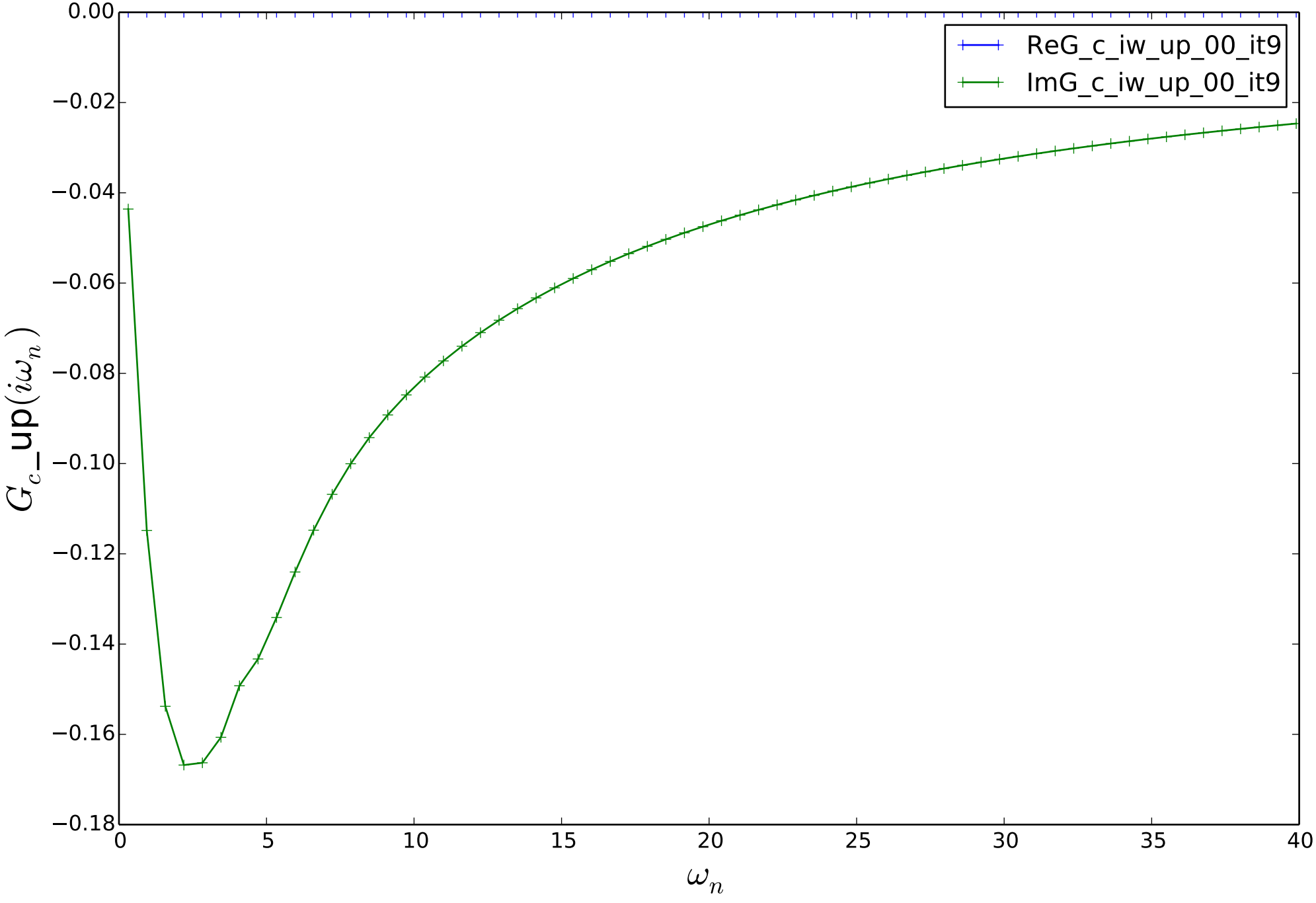
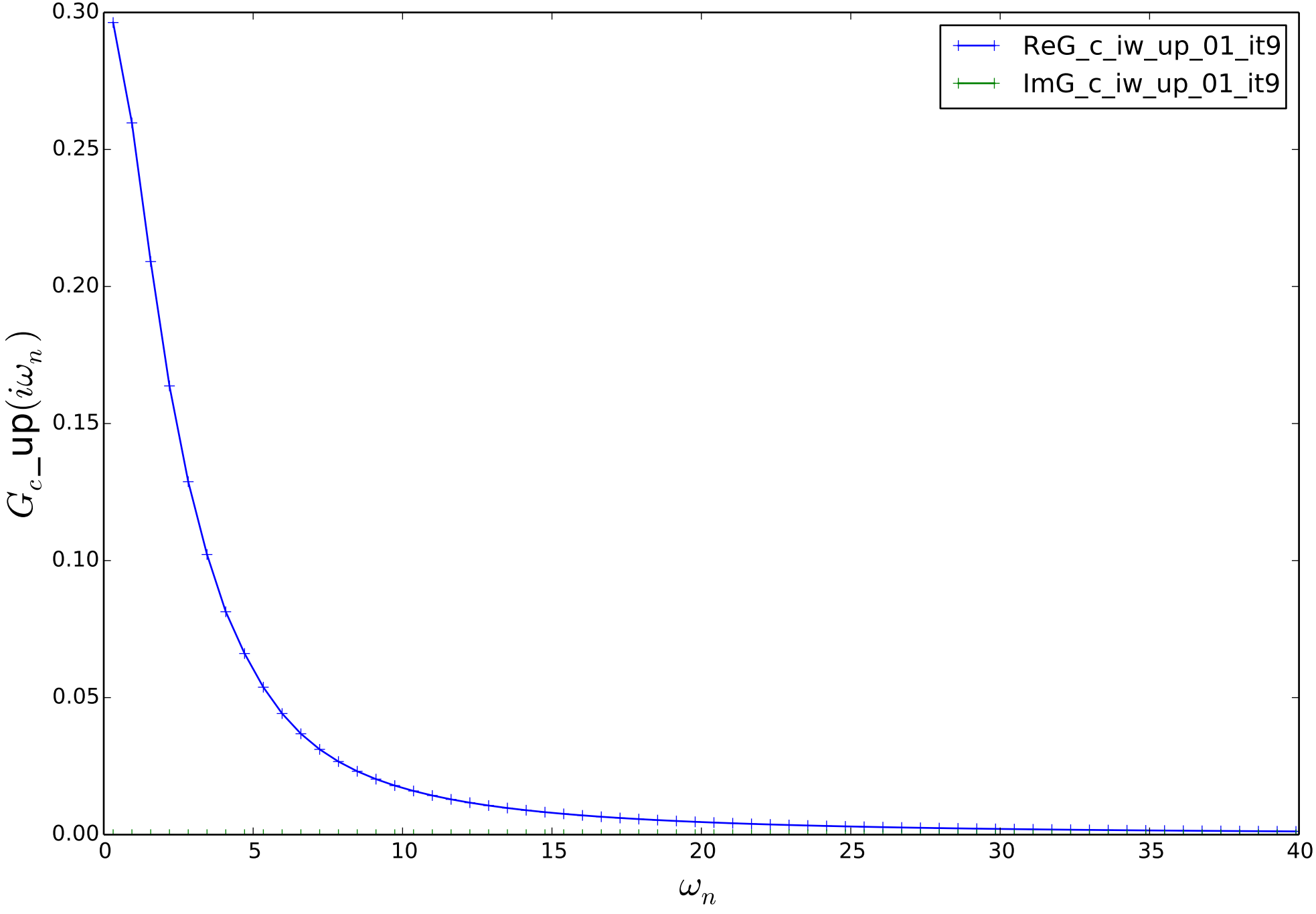
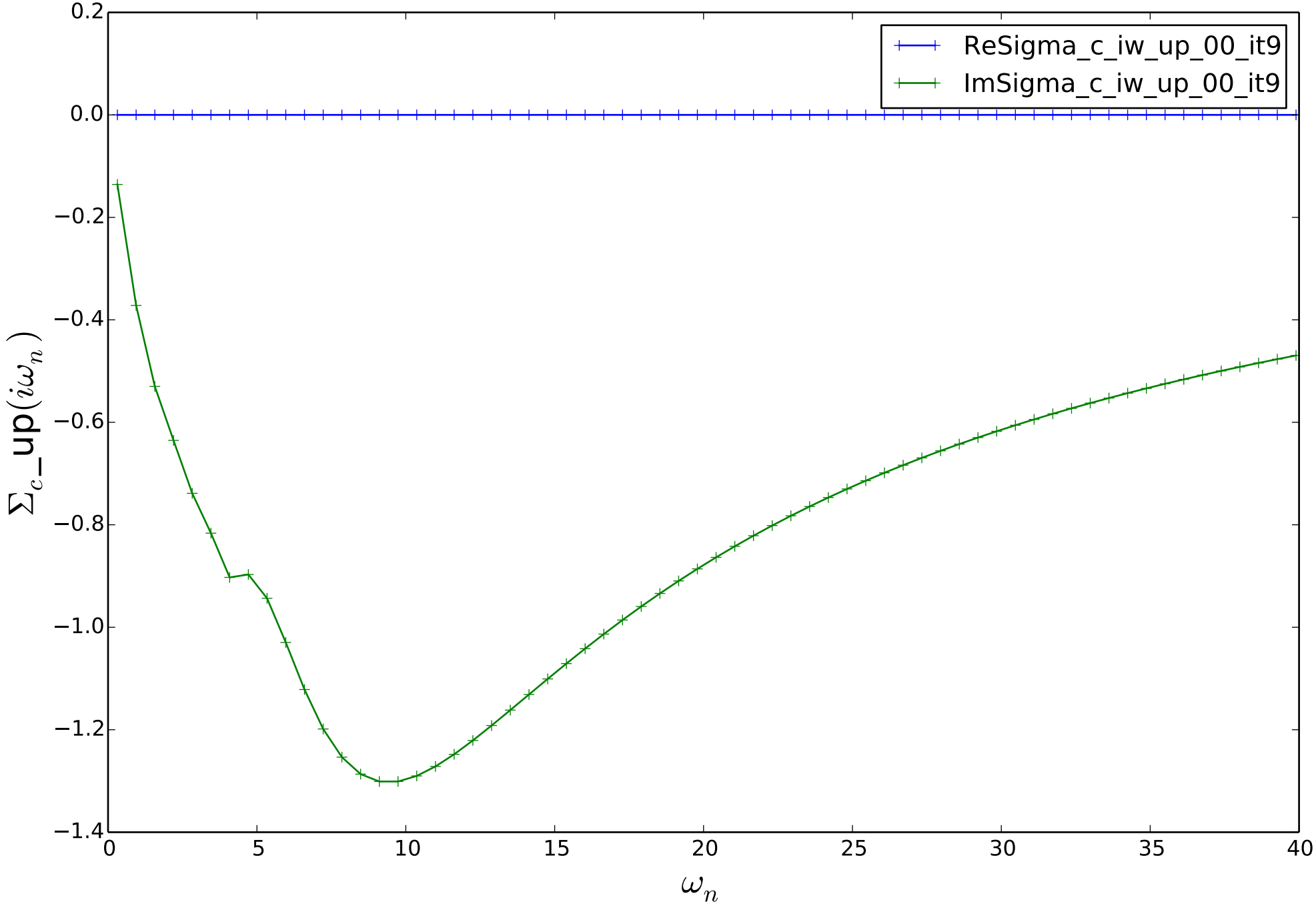
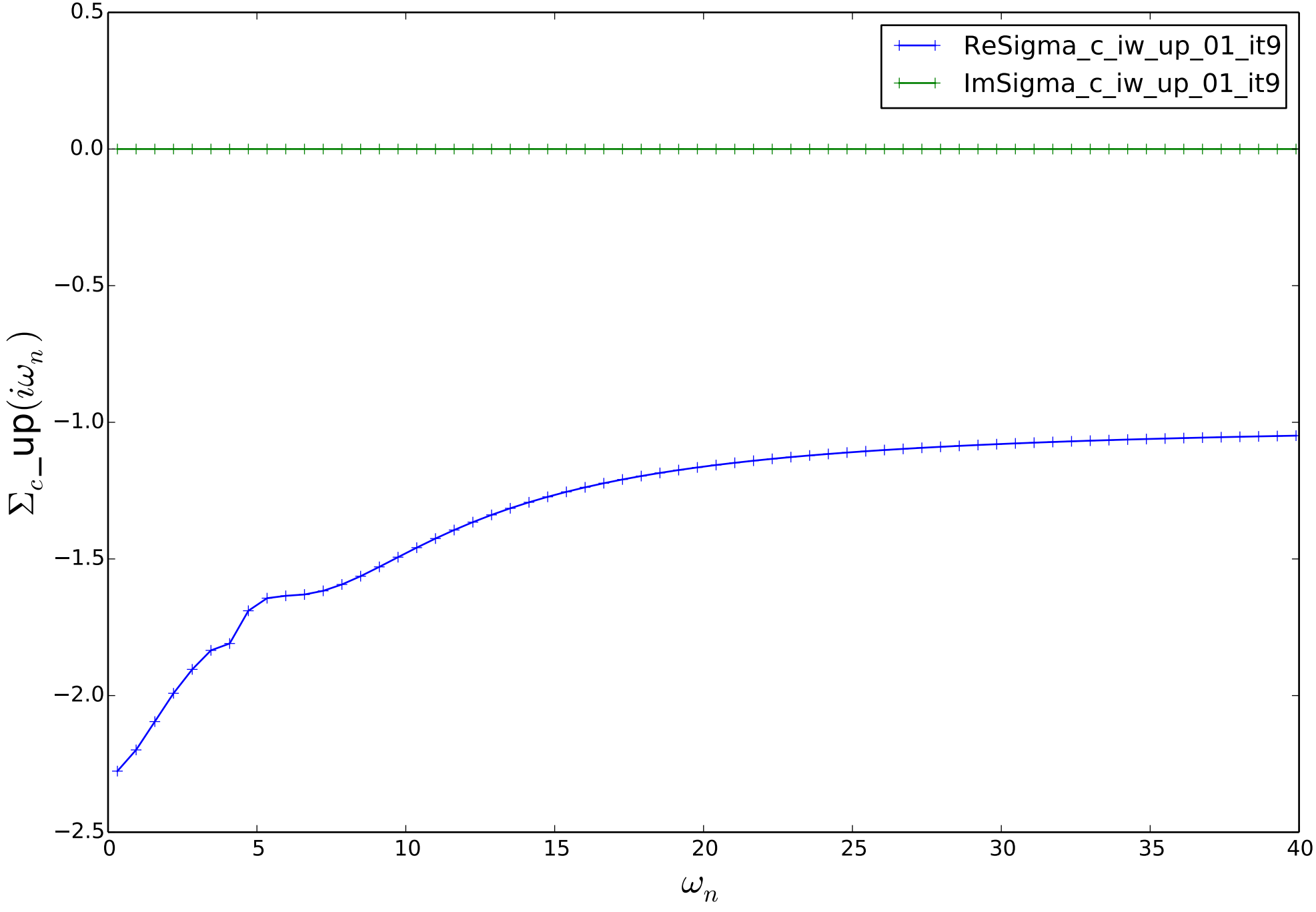
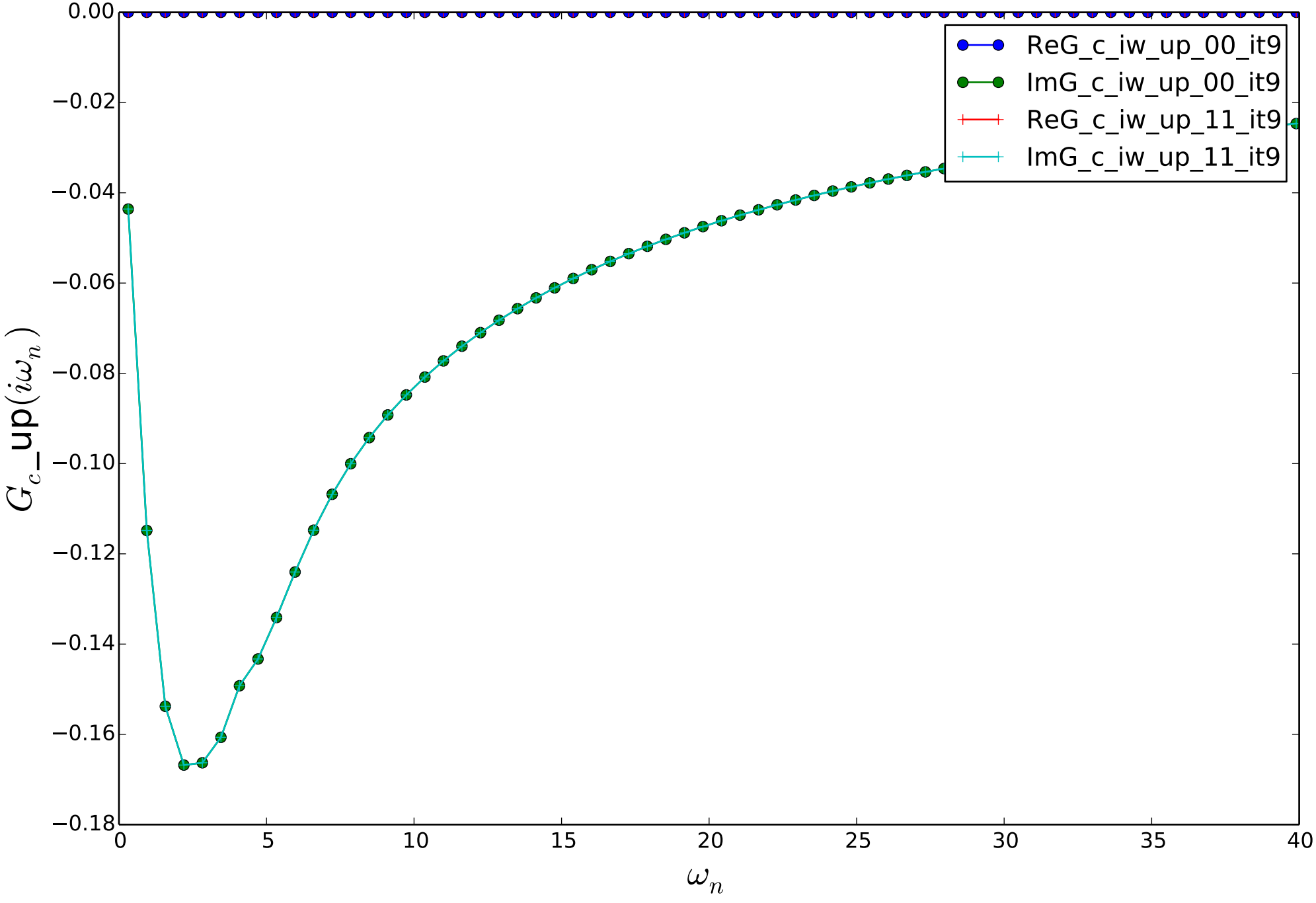
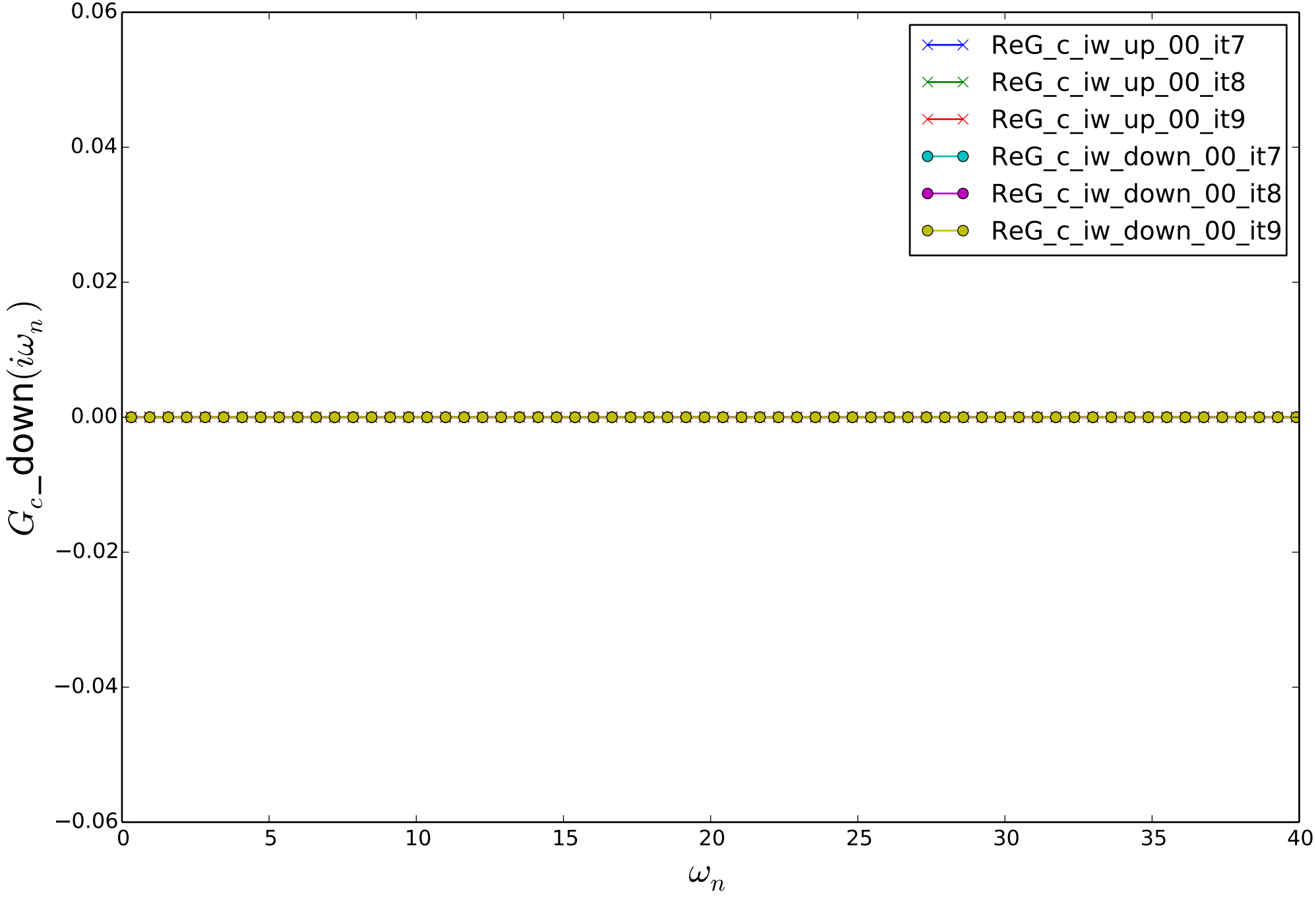

ReG_c_iw_up_00_it9
ImG_c_iw_up_00_it9
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
0
5
10
15
20
25
30
35
40
$G_c\_up(i\omega_n)$
ω_n

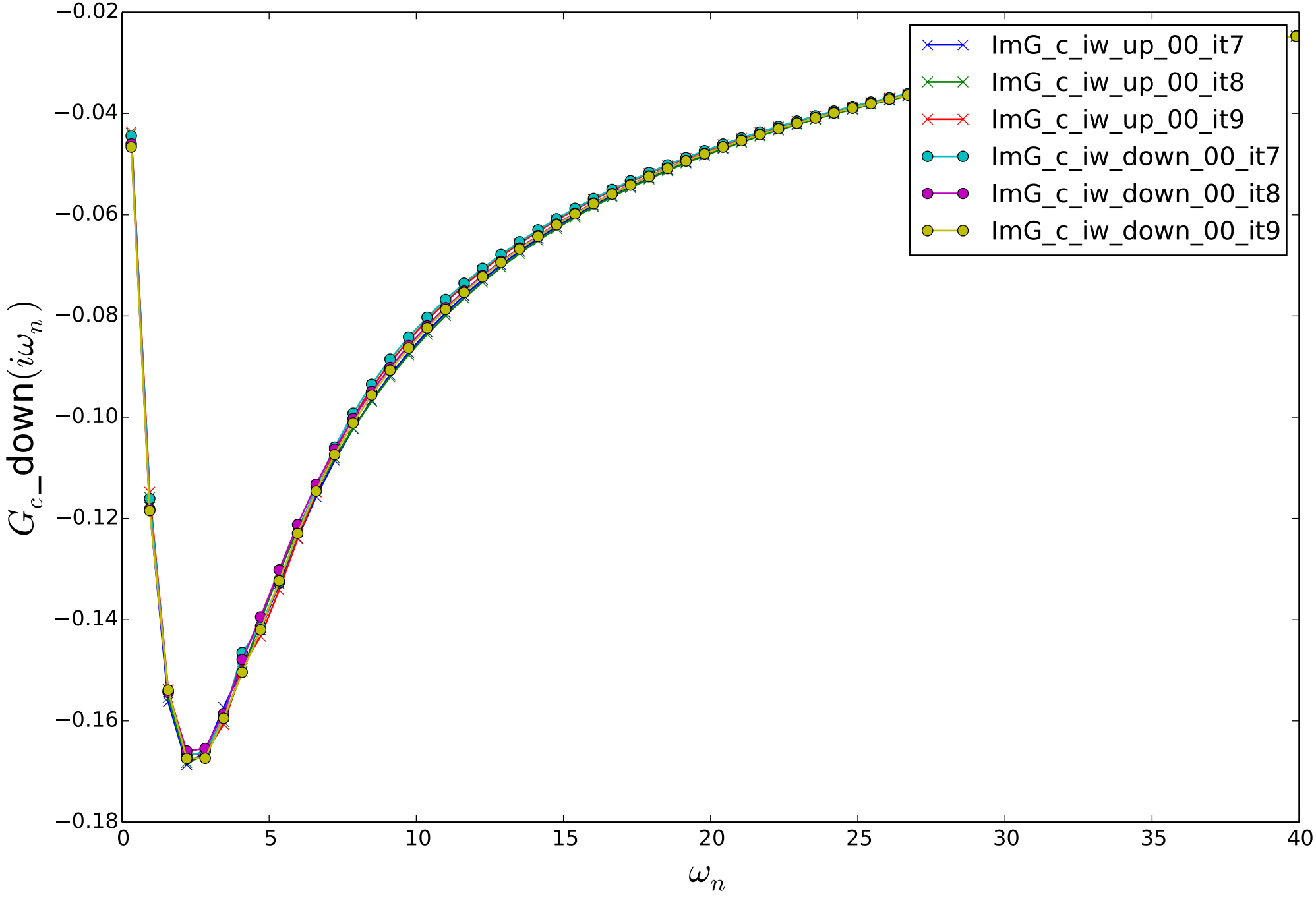

ReG_c_iw_up_01_it9
ImG_c_iw_up_01_it9
$G_{c\_up}(i\omega_n)$
ω_n
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
5
10
15
20
25
30
35
40

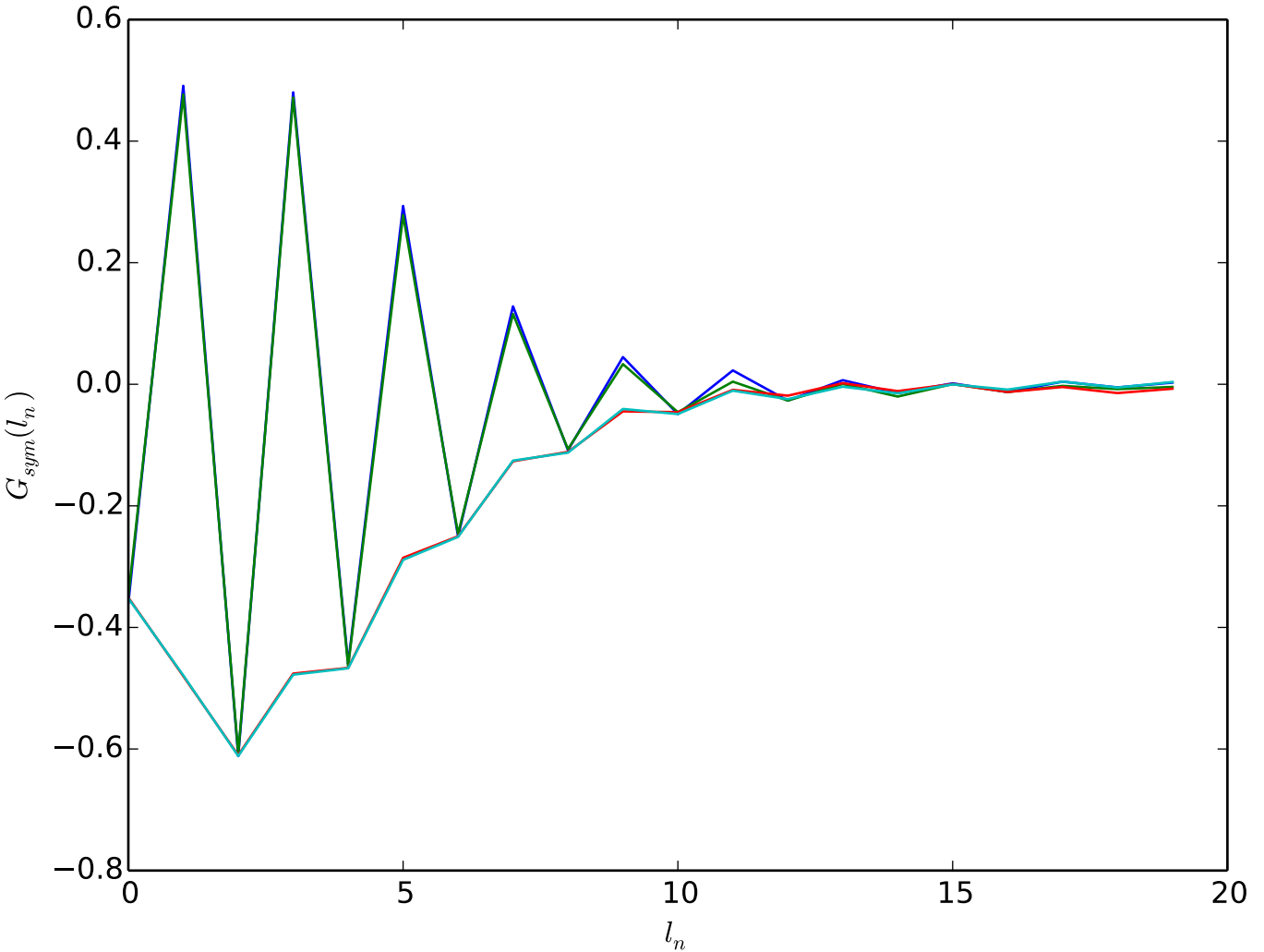

ReSigma_c_iw_up_00_it9
ImSigma_c_iw_up_00_it9
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
−1.4
0
5
10
15
20
25
30
35
40
Σ_c_up$(i\omega_n)$
ω_n

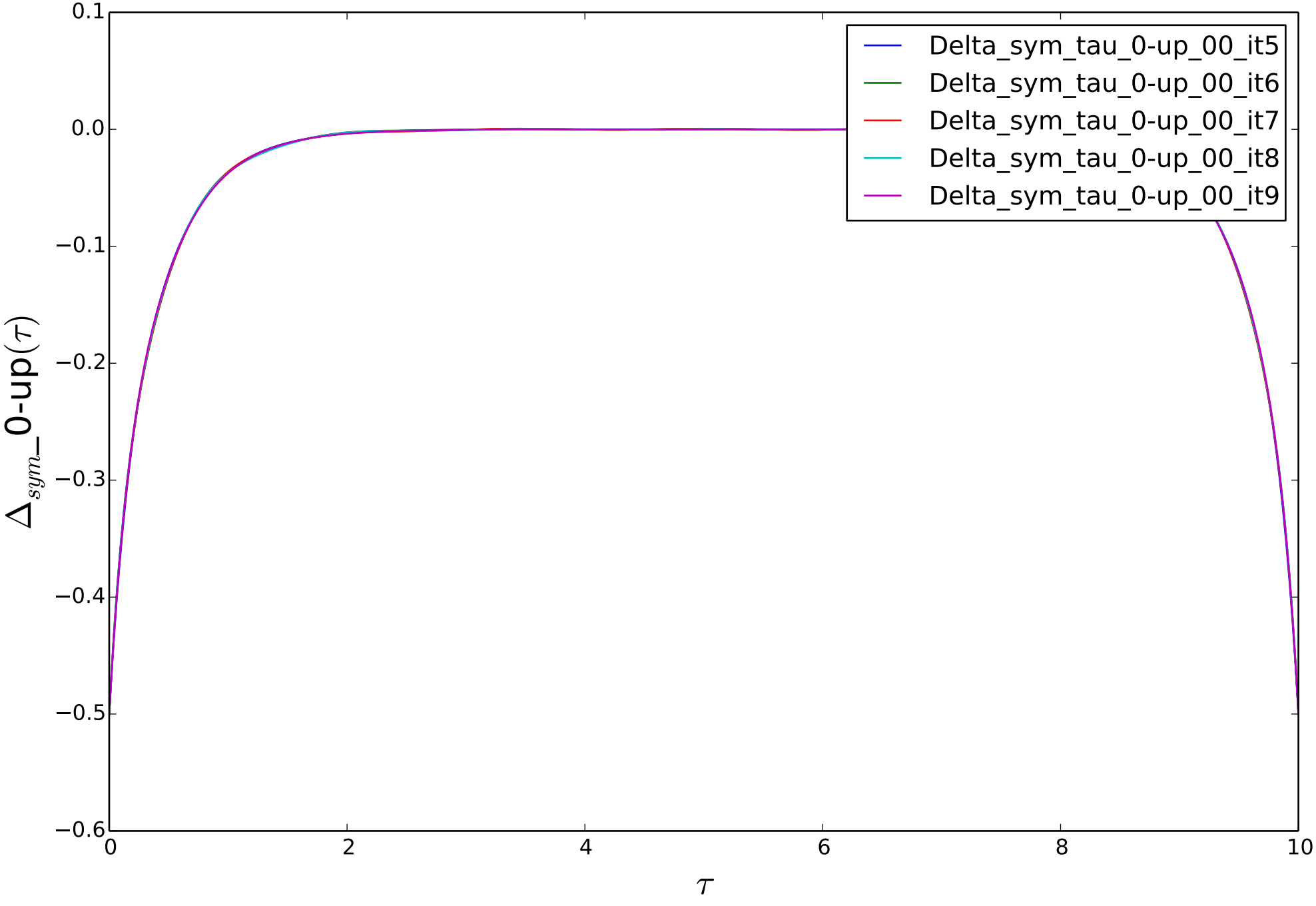

ReSigma_c_iw_up_01_it9
ImSigma_c_iw_up_01_it9
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
0
5
10
15
20
25
30
35
40
Σ_c_up$(i\omega_n)$
ω_n

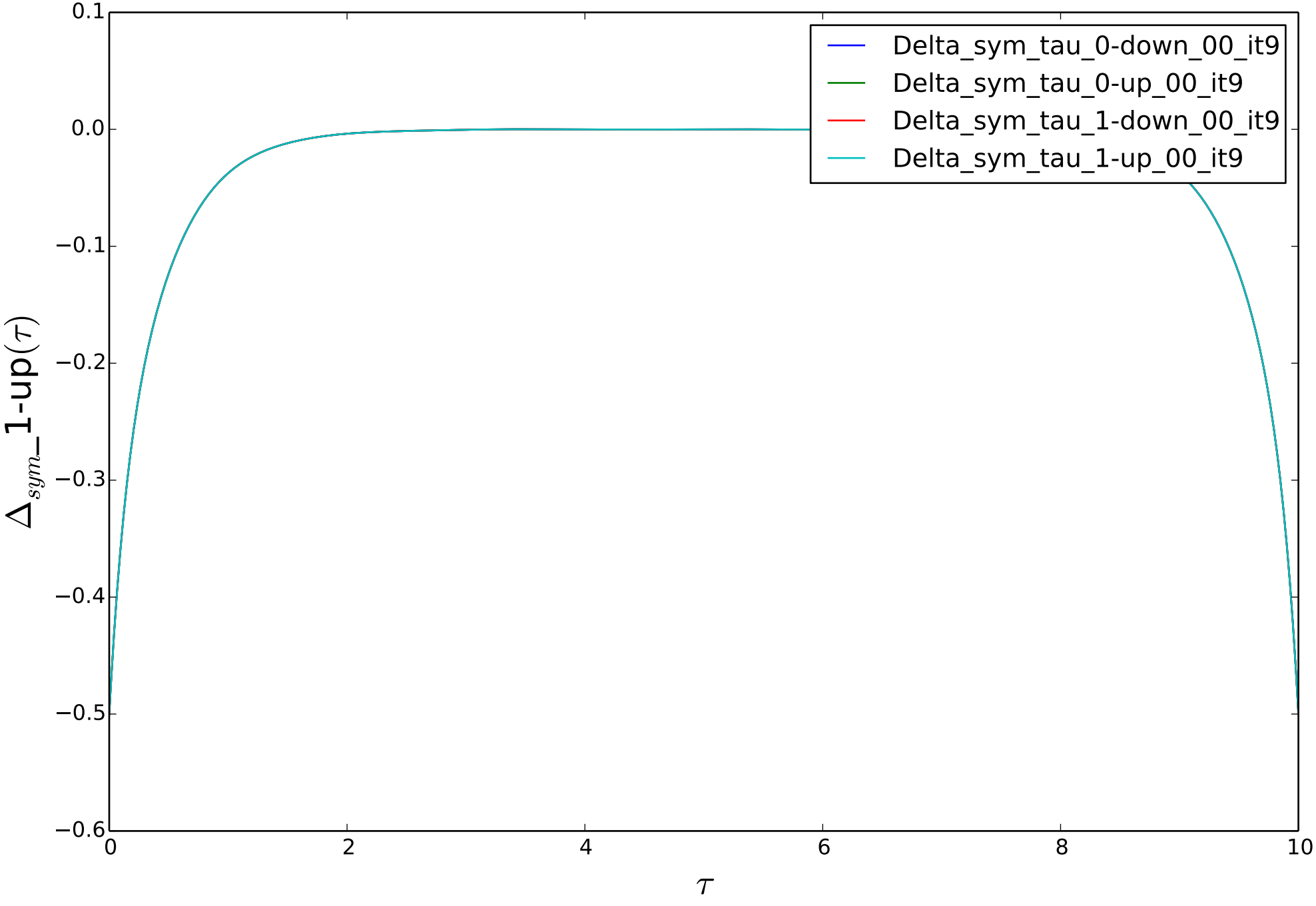

ReG_c_iw_up_00_it9
ImG_c_iw_up_00_it9
ReG_c_iw_up_11_it9
ImG_c_iw_up_11_it9
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
0
5
10
15
20
25
30
35
40
$G_c\_up(i\omega_n)$
ω_n

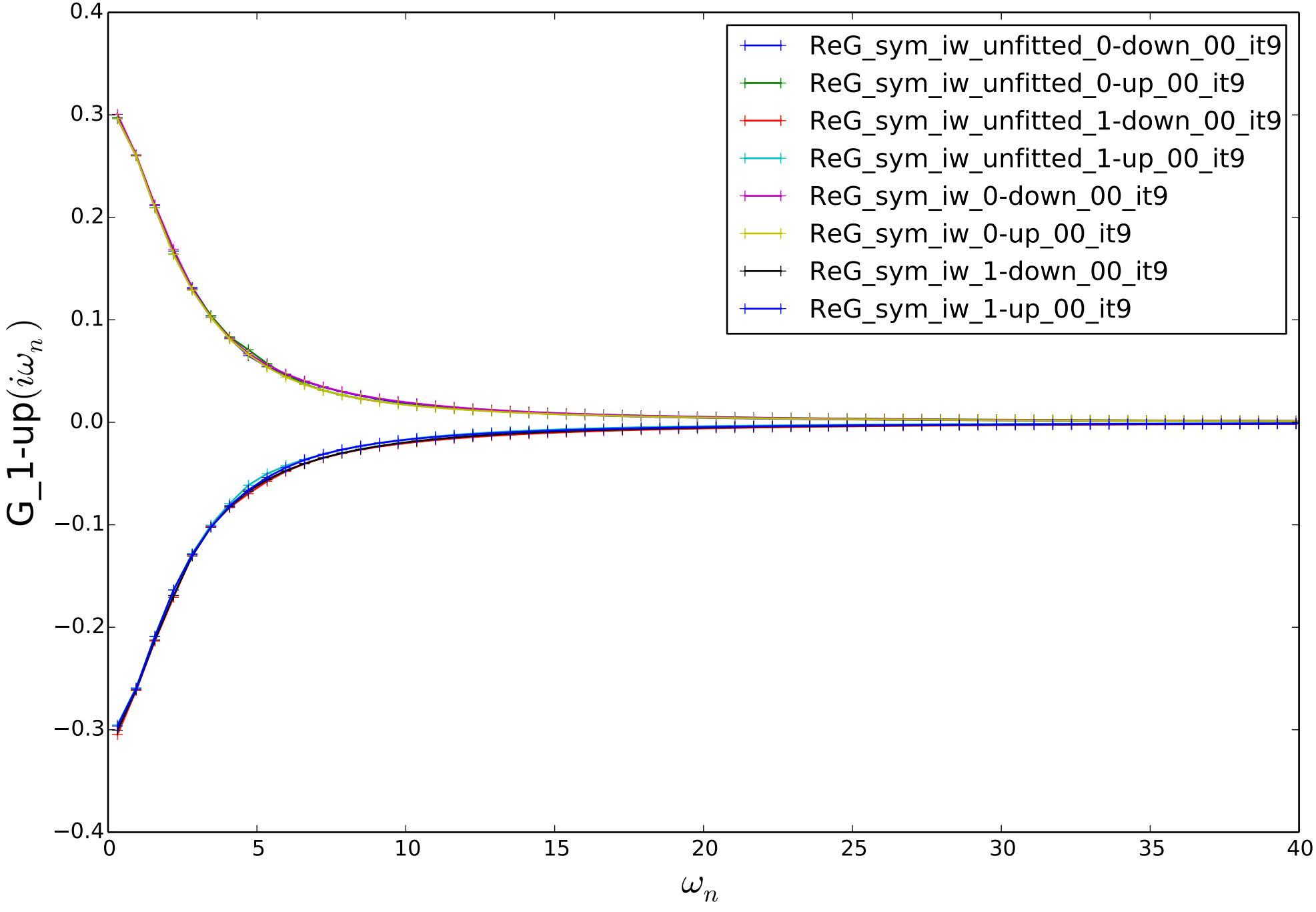

ReG_c_iw_up_00_it7
ReG_c_iw_up_00_it8
ReG_c_iw_up_00_it9
ReG_c_iw_down_00_it7
ReG_c_iw_down_00_it8
ReG_c_iw_down_00_it9
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
0
5
10
15
20
25
30
35
40
G_c_down$(i\omega_n)$
ω_n

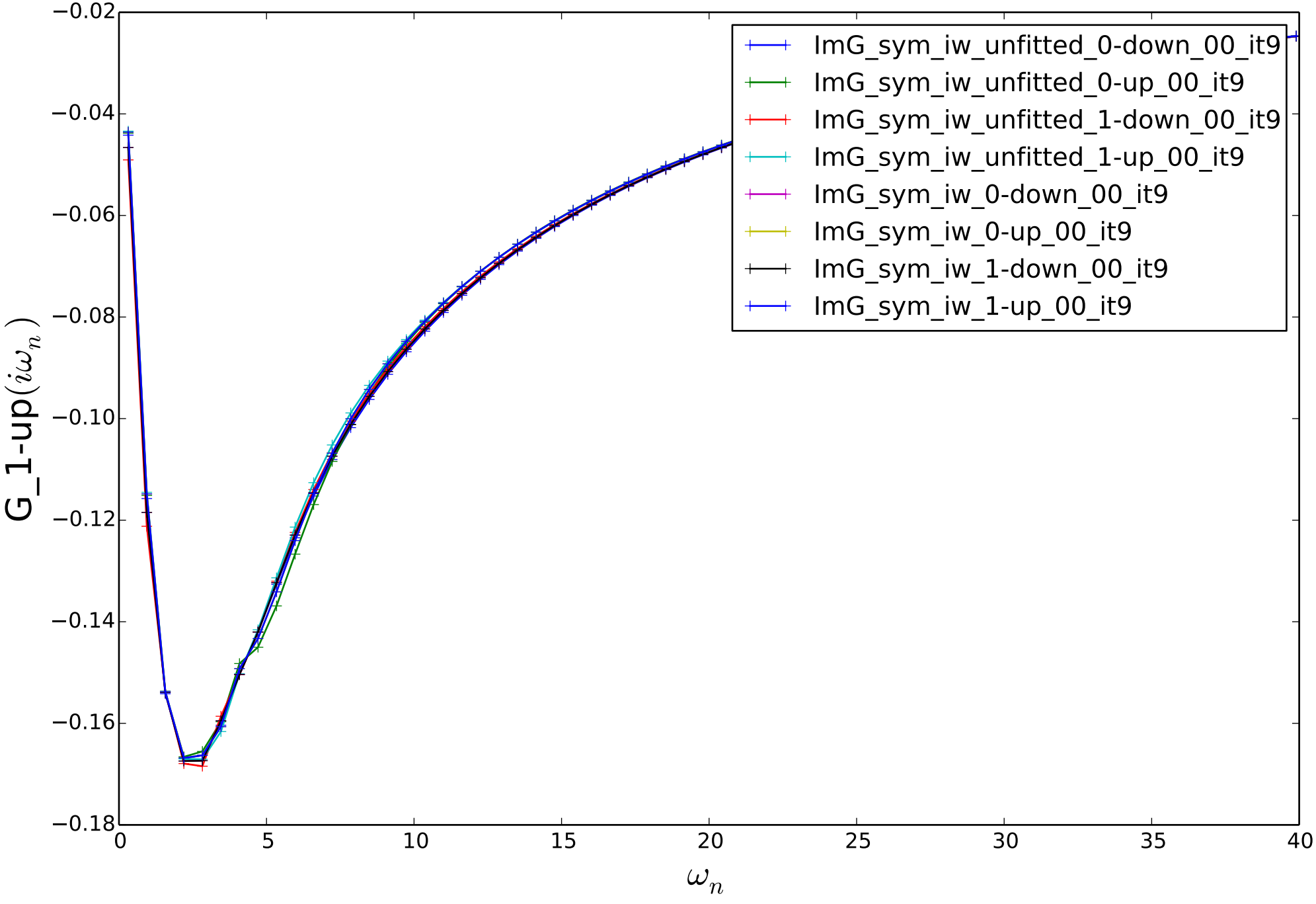

ImG_c_iw_up_00_it7
ImG_c_iw_up_00_it8
ImG_c_iw_up_00_it9
ImG_c_iw_down_00_it7
ImG_c_iw_down_00_it8
ImG_c_iw_down_00_it9
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
0
5
10
15
20
25
30
35
40
G_c_down$(i\omega_n)$
ω_n

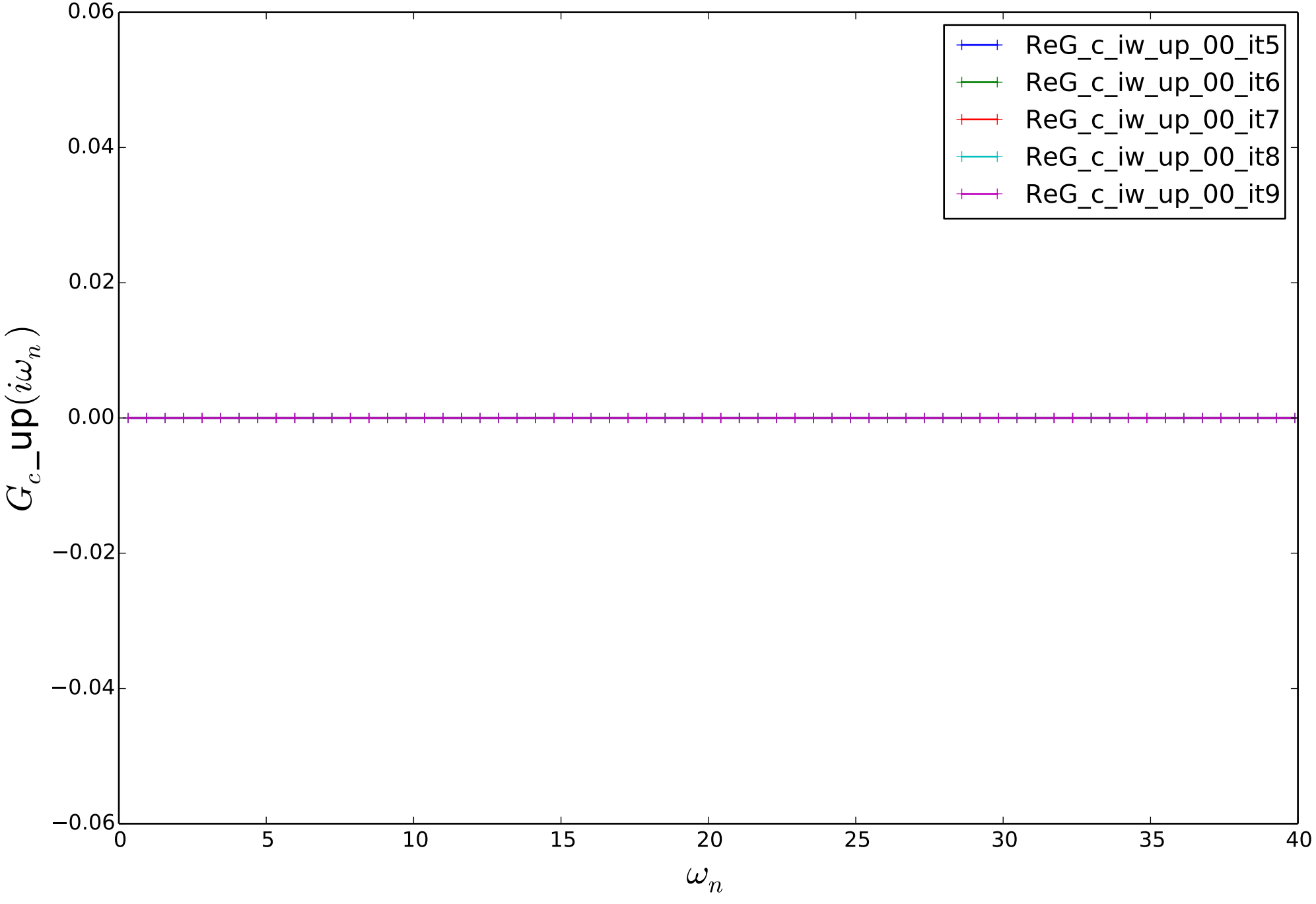

0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.8
$G_{sym}(l_n)$
0
5
10
15
20
l_n

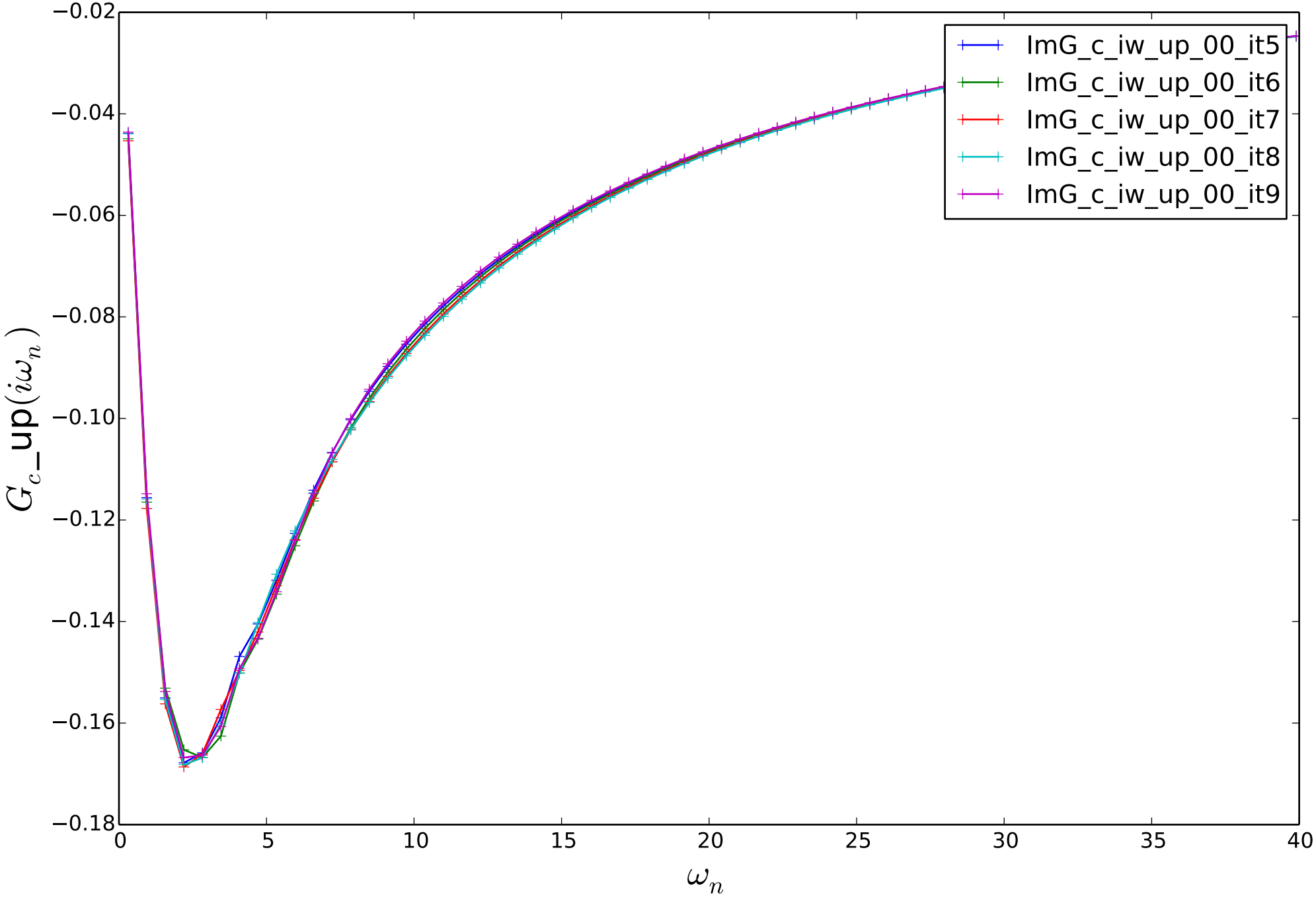

Delta_sym_tau_0-up_00_it5
Delta_sym_tau_0-up_00_it6
Delta_sym_tau_0-up_00_it7
Delta_sym_tau_0-up_00_it8
Delta_sym_tau_0-up_00_it9
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
2
4
6
8
10
τ
Δ_{sym}_0-up(τ)

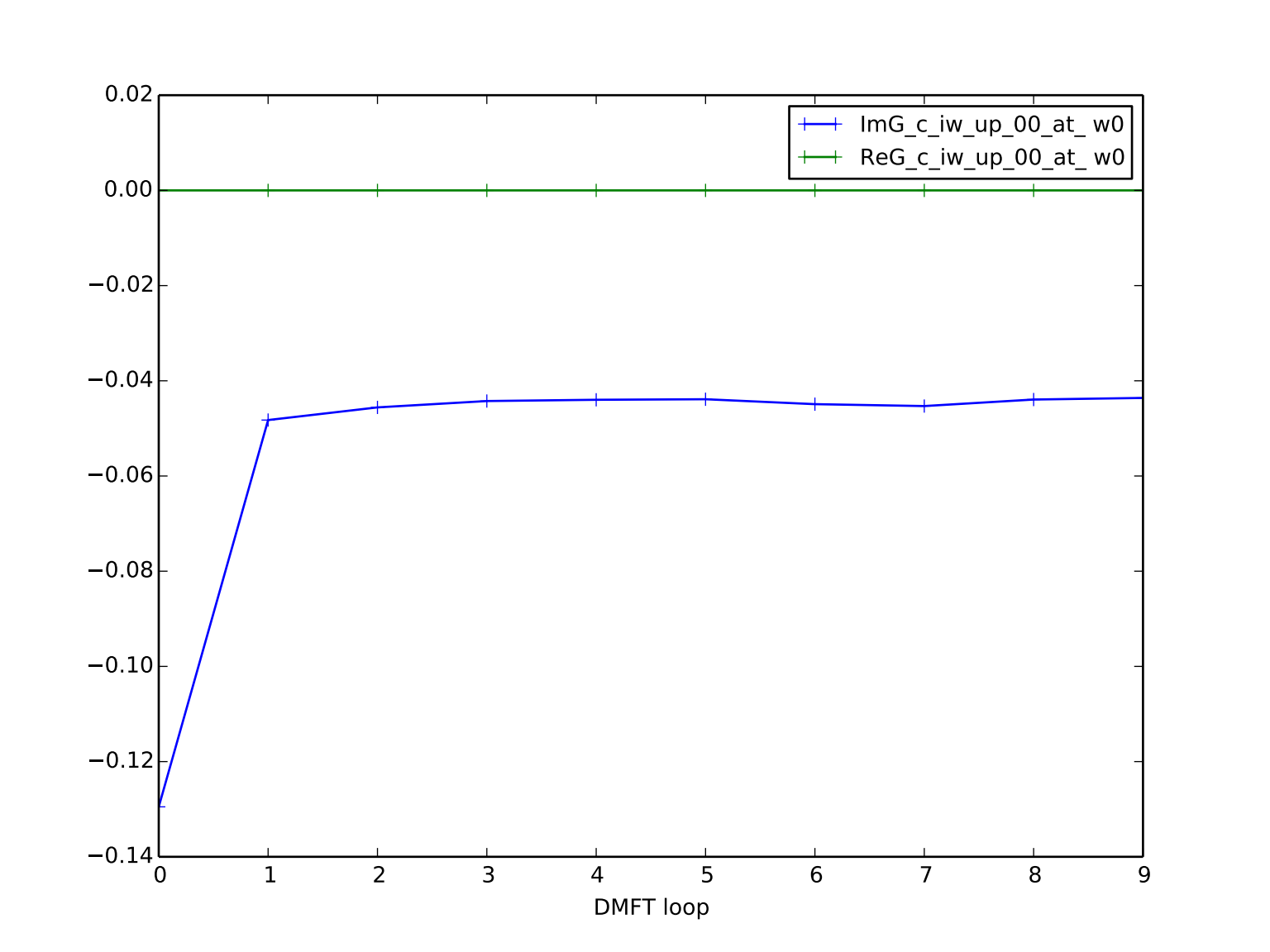

Delta_sym_tau_0-down_00_it9
Delta_sym_tau_0-up_00_it9
Delta_sym_tau_1-down_00_it9
Delta_sym_tau_1-up_00_it9
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
2
4
6
8
10
Δ_{sym}_1-up(τ)
τ

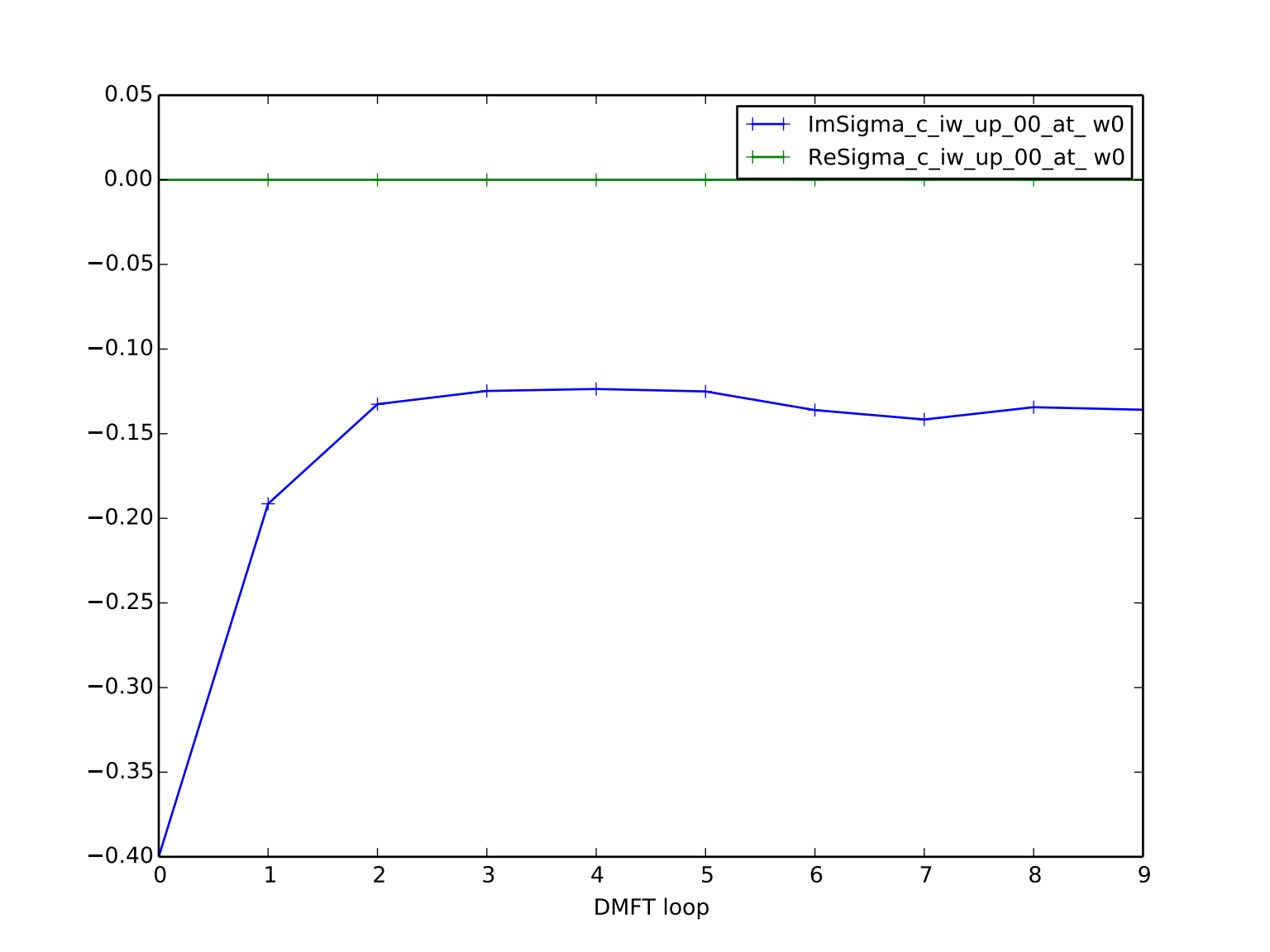

ReG_sym_iw_unfitted_0-down_00_it9
ReG_sym_iw_unfitted_0-up_00_it9
ReG_sym_iw_unfitted_1-down_00_it9
ReG_sym_iw_unfitted_1-up_00_it9
ReG_sym_iw_0-down_00_it9
ReG_sym_iw_0-up_00_it9
ReG_sym_iw_1-down_00_it9
ReG_sym_iw_1-up_00_it9
G_1-up($i\omega_n$)
ω_n
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
5
10
15
20
25
30
35
40

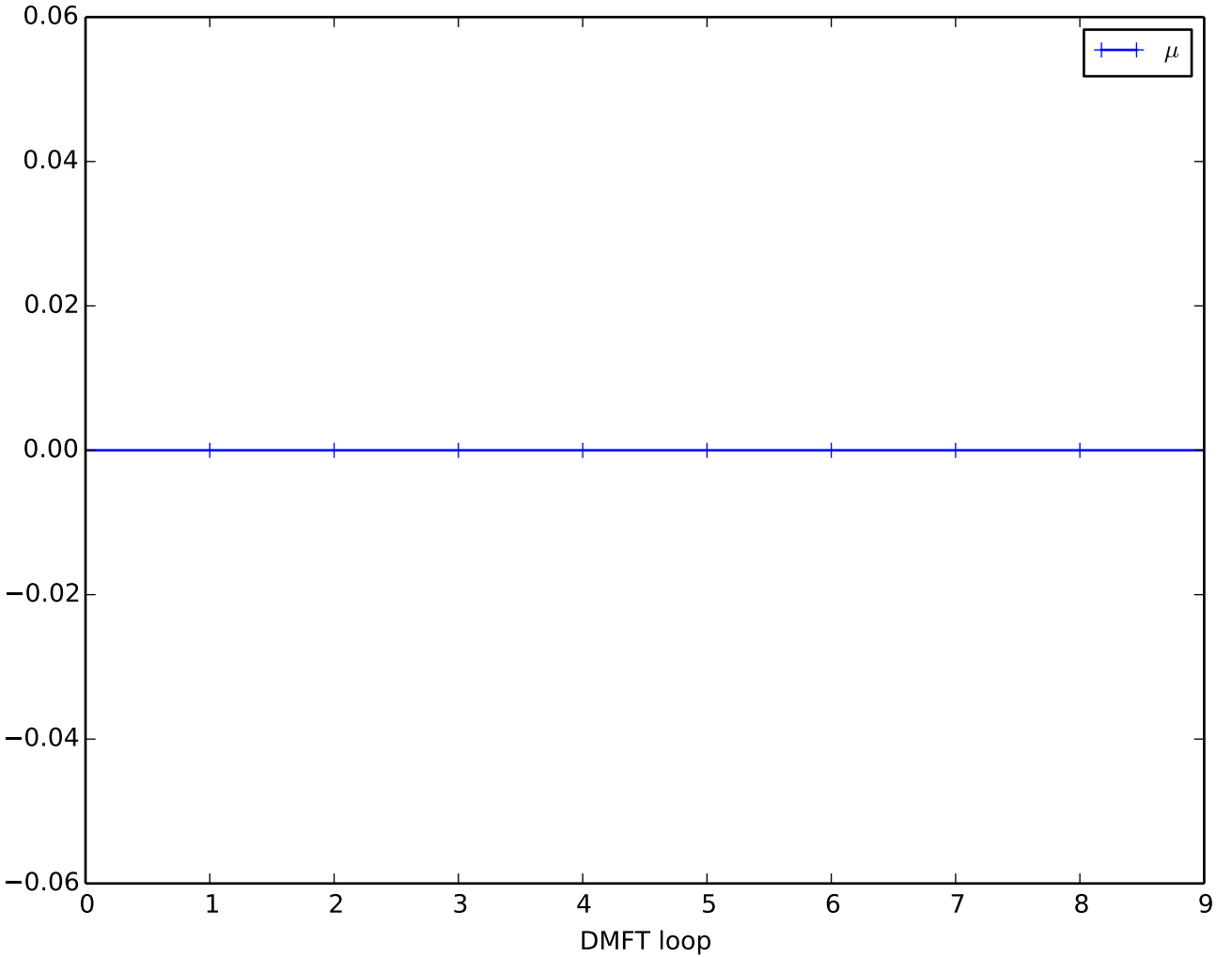

ImG_sym_iw_unfitted_0-down_00_it9
ImG_sym_iw_unfitted_0-up_00_it9
ImG_sym_iw_unfitted_1-down_00_it9
ImG_sym_iw_unfitted_1-up_00_it9
ImG_sym_iw_0-down_00_it9
ImG_sym_iw_0-up_00_it9
ImG_sym_iw_1-down_00_it9
ImG_sym_iw_1-up_00_it9
G_1-up($i\omega_n$)
ω_n
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
0
5
10
15
20
25
30
35
40

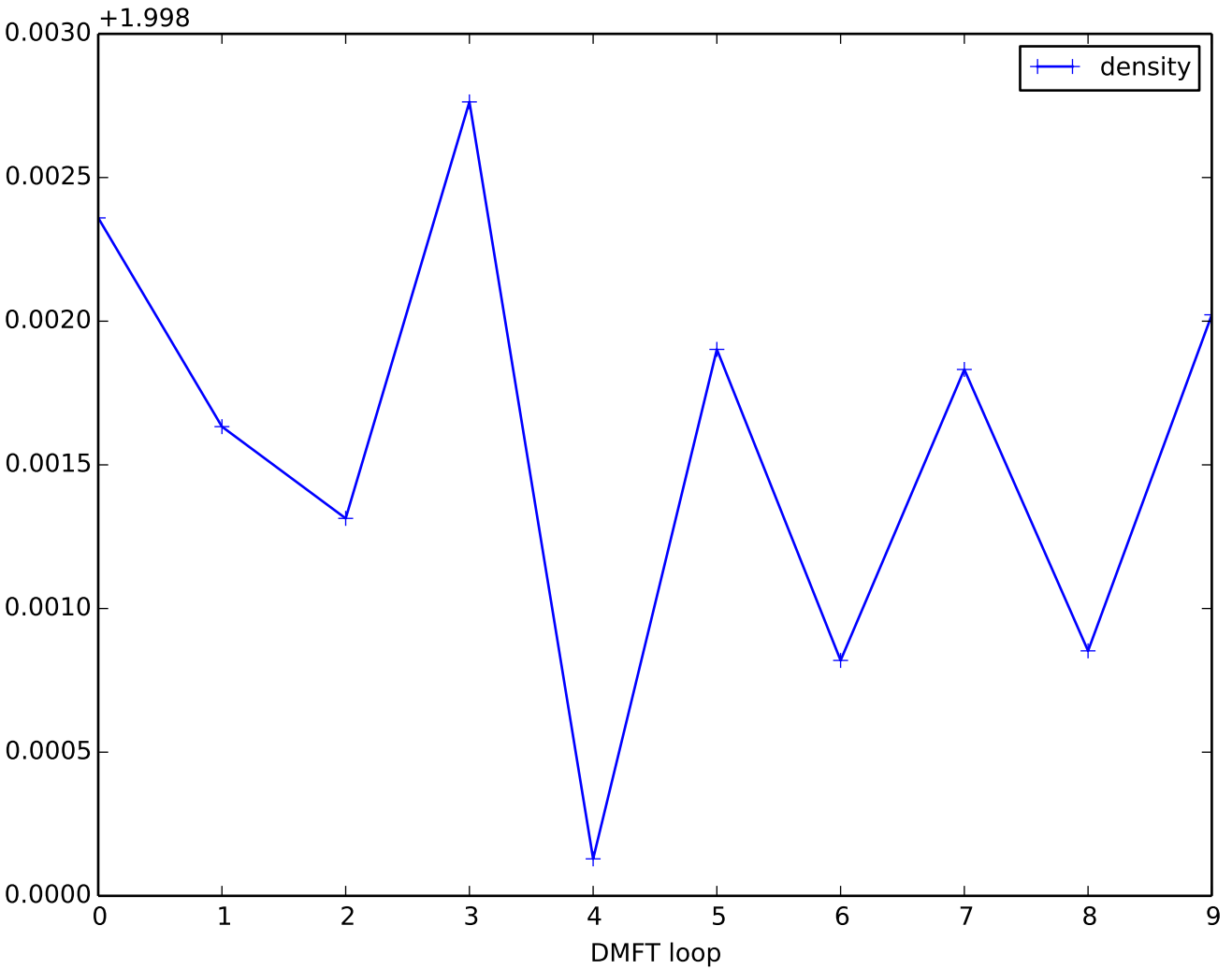

ReG_c_iw_up_00_it5
ReG_c_iw_up_00_it6
ReG_c_iw_up_00_it7
ReG_c_iw_up_00_it8
ReG_c_iw_up_00_it9
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
0
5
10
15
20
25
30
35
40
G_c_up$(i\omega_n)$
ω_n

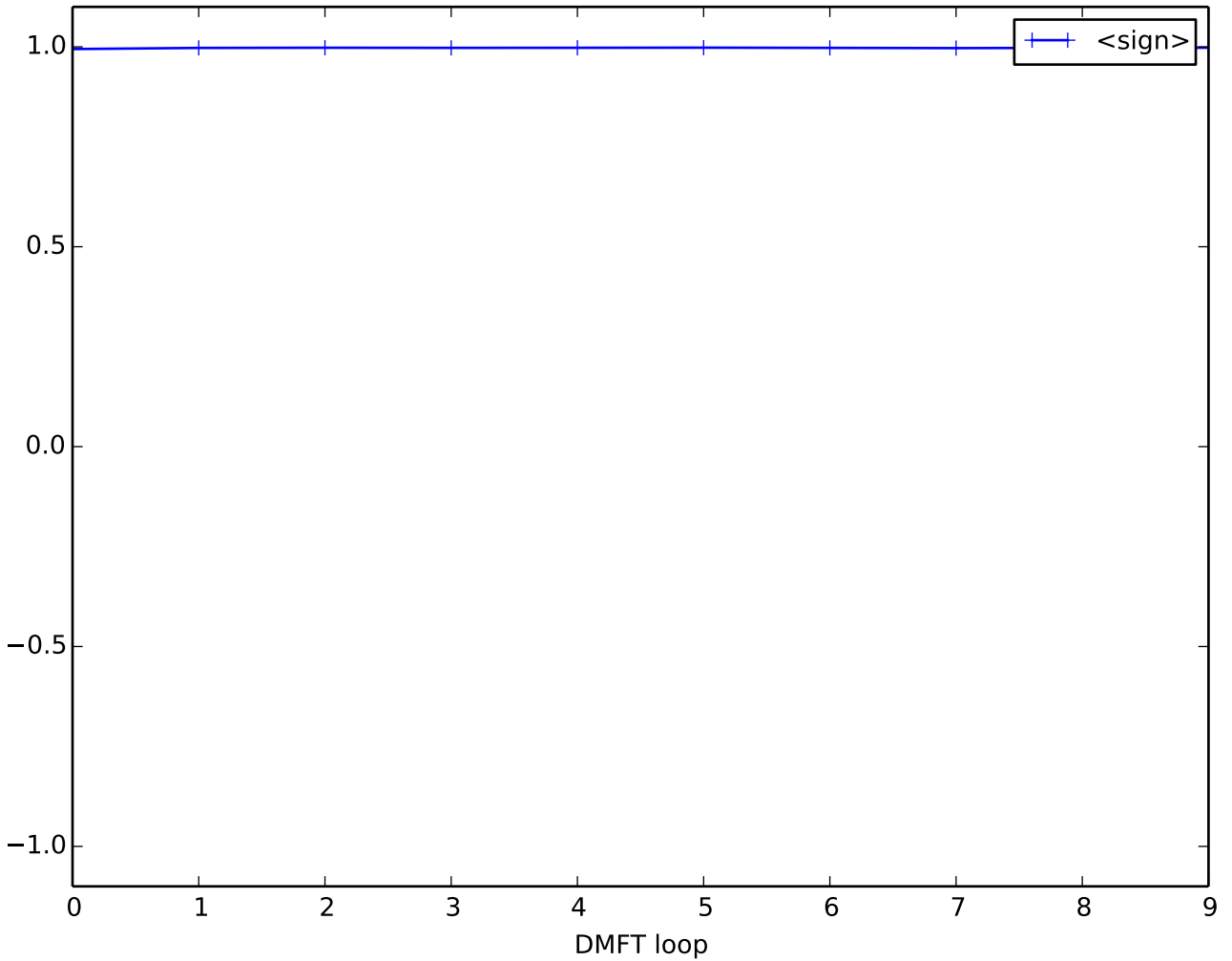

ImG_c_iw_up_00_it5
ImG_c_iw_up_00_it6
ImG_c_iw_up_00_it7
ImG_c_iw_up_00_it8
ImG_c_iw_up_00_it9
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
0
5
10
15
20
25
30
35
40
$G_{c\_up}(i\omega_n)$
ω_n

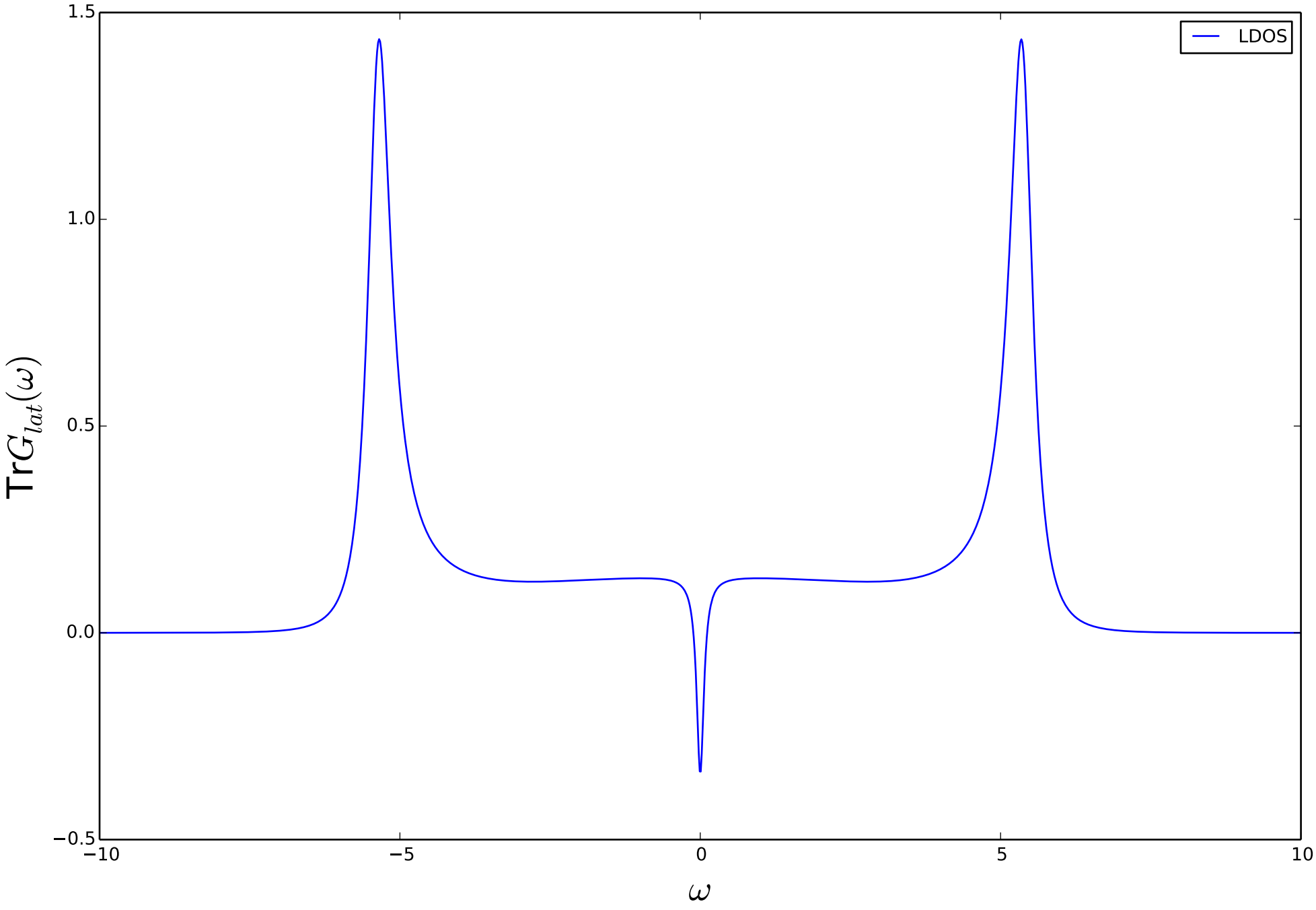

ImG_c_iw_up_00_at_ w0
ReG_c_iw_up_00_at_ w0
0.02
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
0
1
2
3
4
5
6
7
8
9
DMFT loop

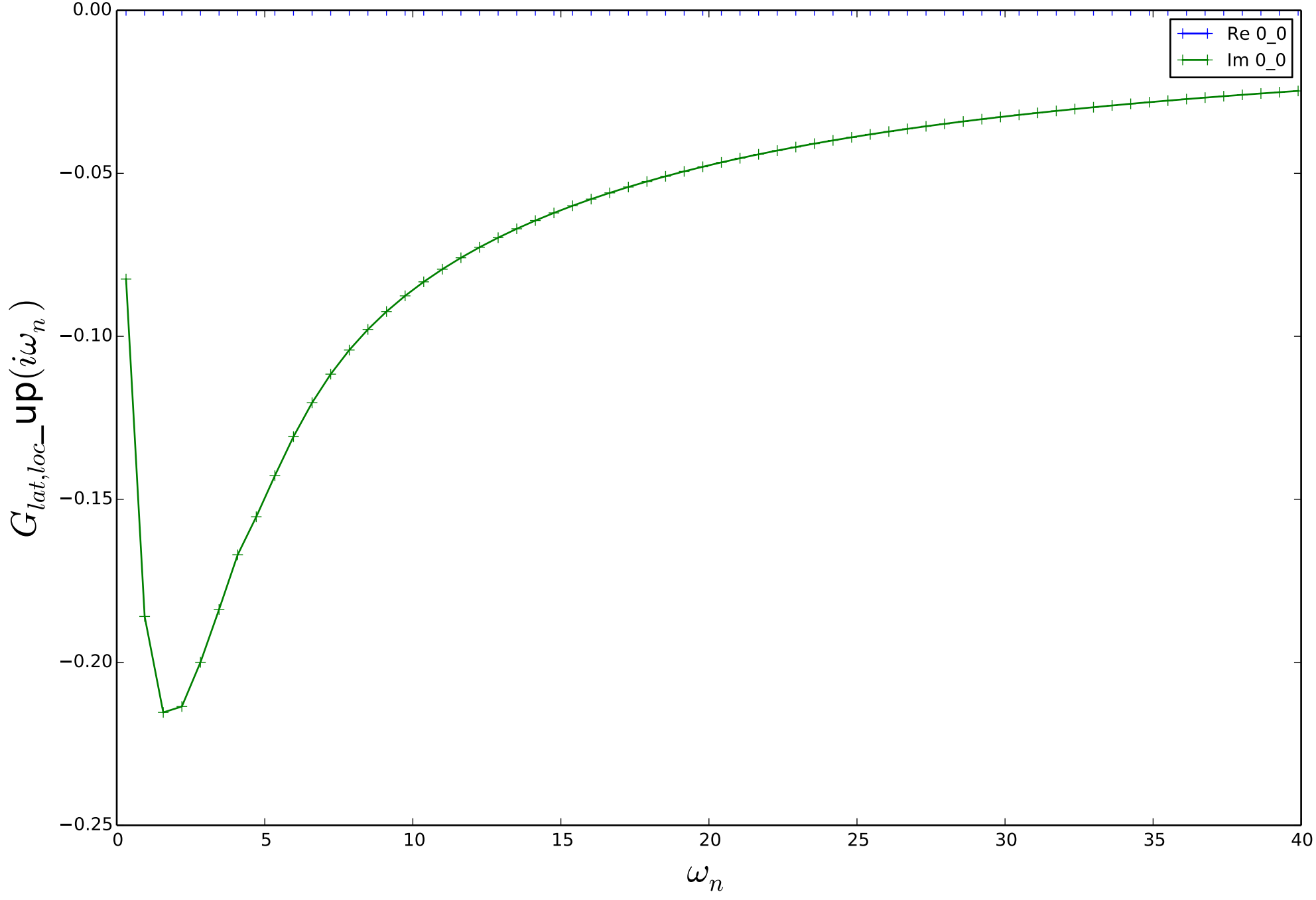

ImSigma_c_iw_up_00_at_ w0
ReSigma_c_iw_up_00_at_ w0
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
0
1
2
3
4
5
6
7
8
9
DMFT loop

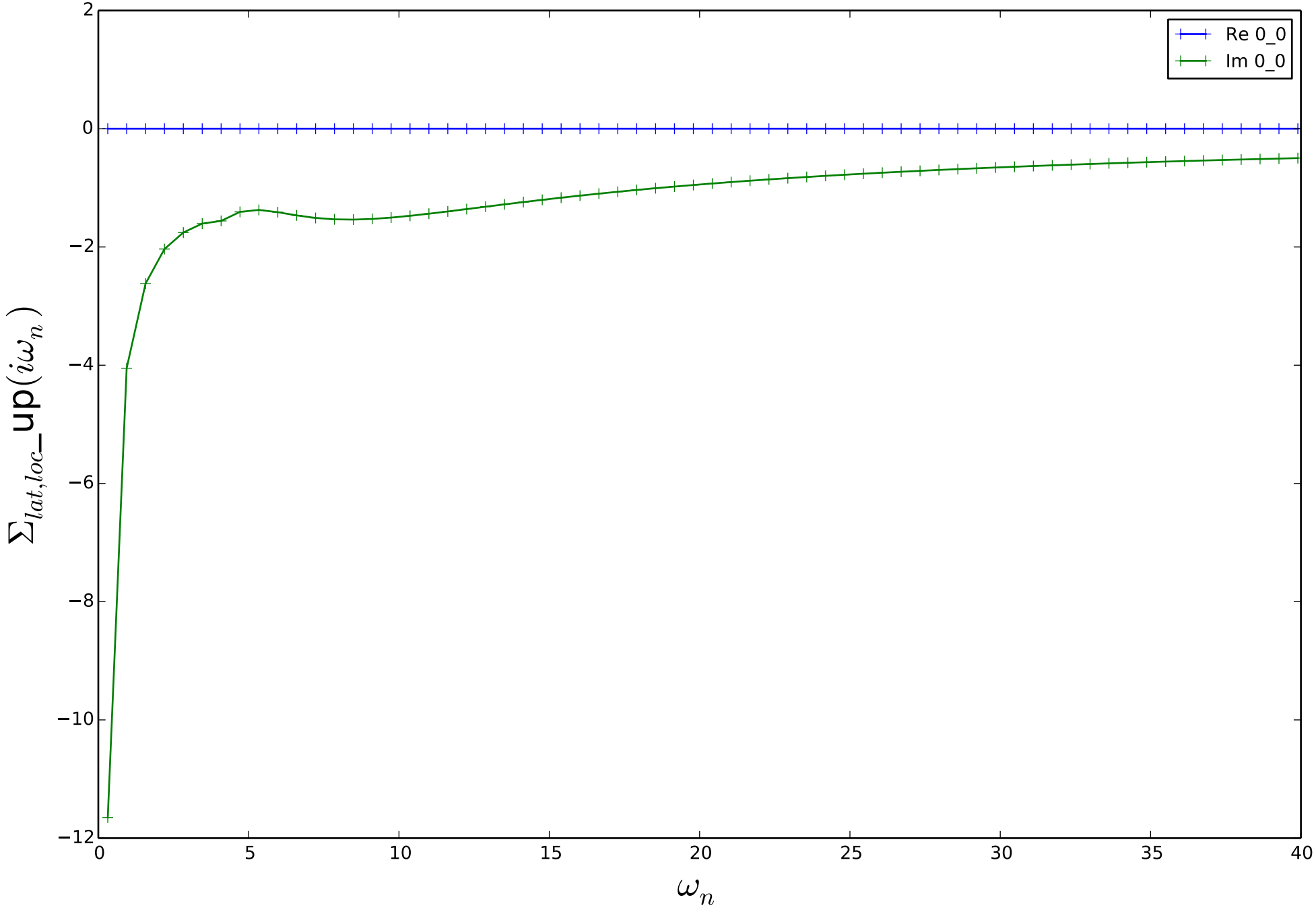

0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
0
1
2
3
4
5
6
7
8
9
DMFT loop
μ

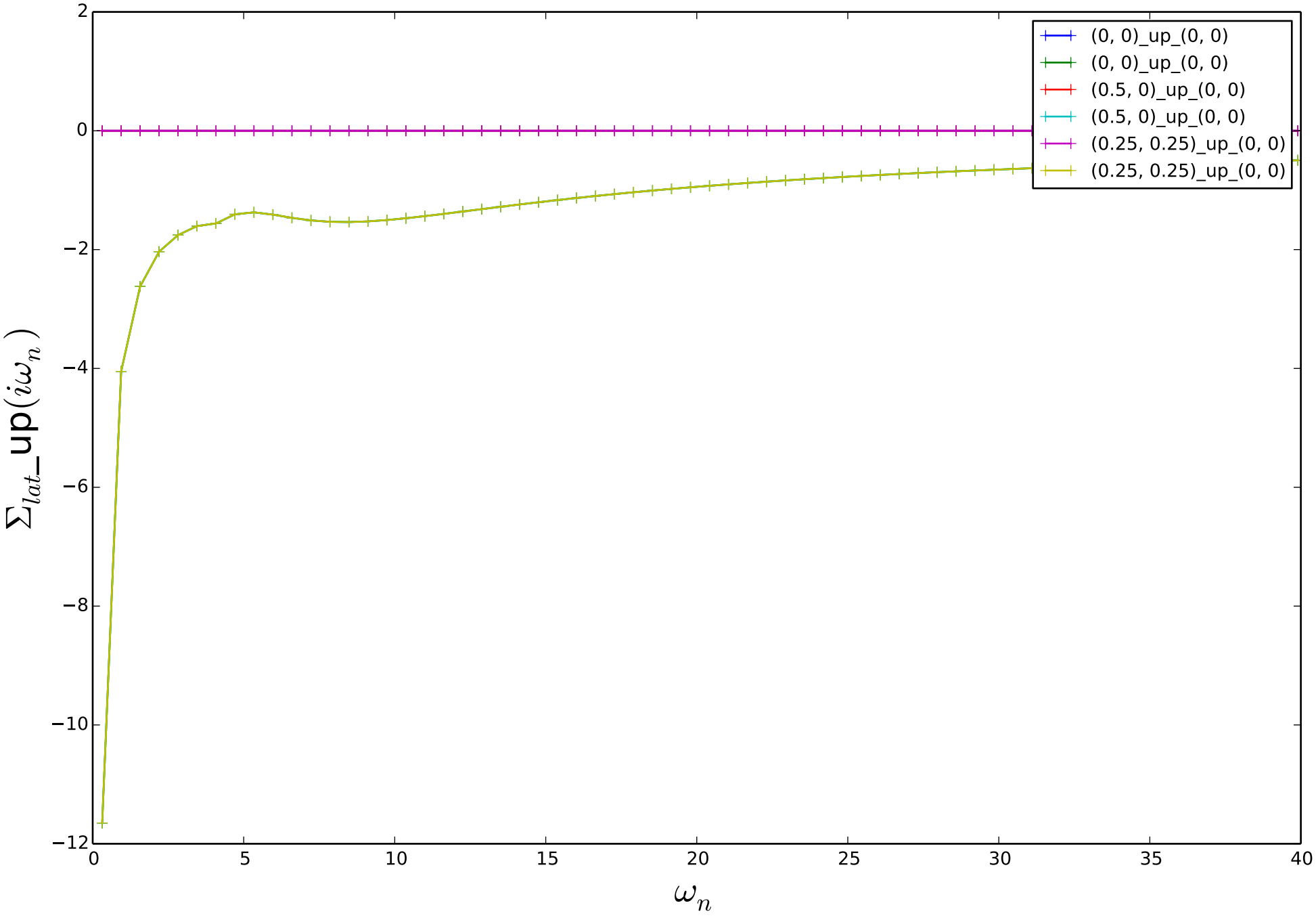

+1.998
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
density
0
1
2
3
4
5
6
7
8
9
DMFT loop

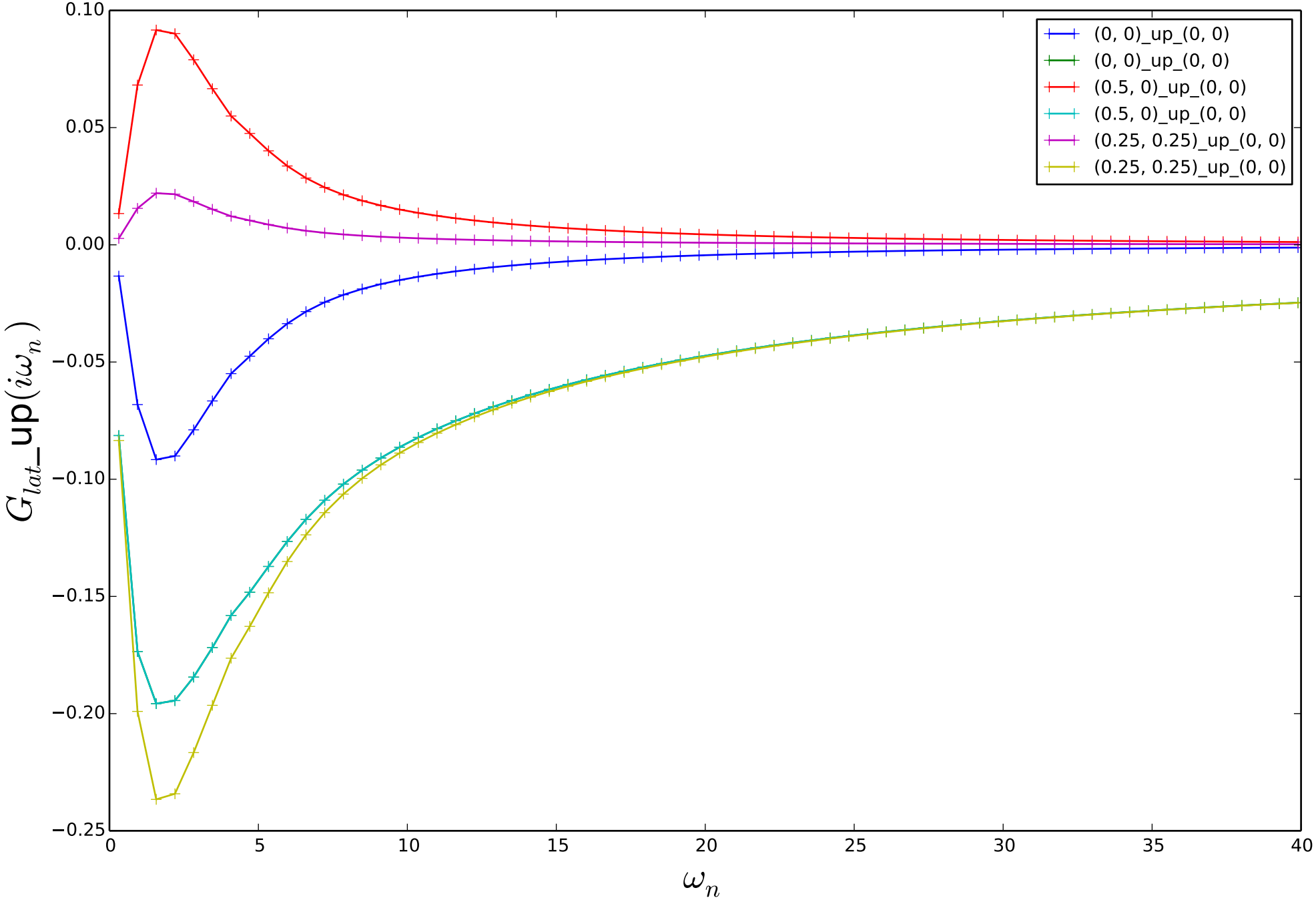

<sign>
1.0
0.5
0.0
−0.5
−1.0
0
1
2
3
4
5
6
7
8
9
DMFT loop

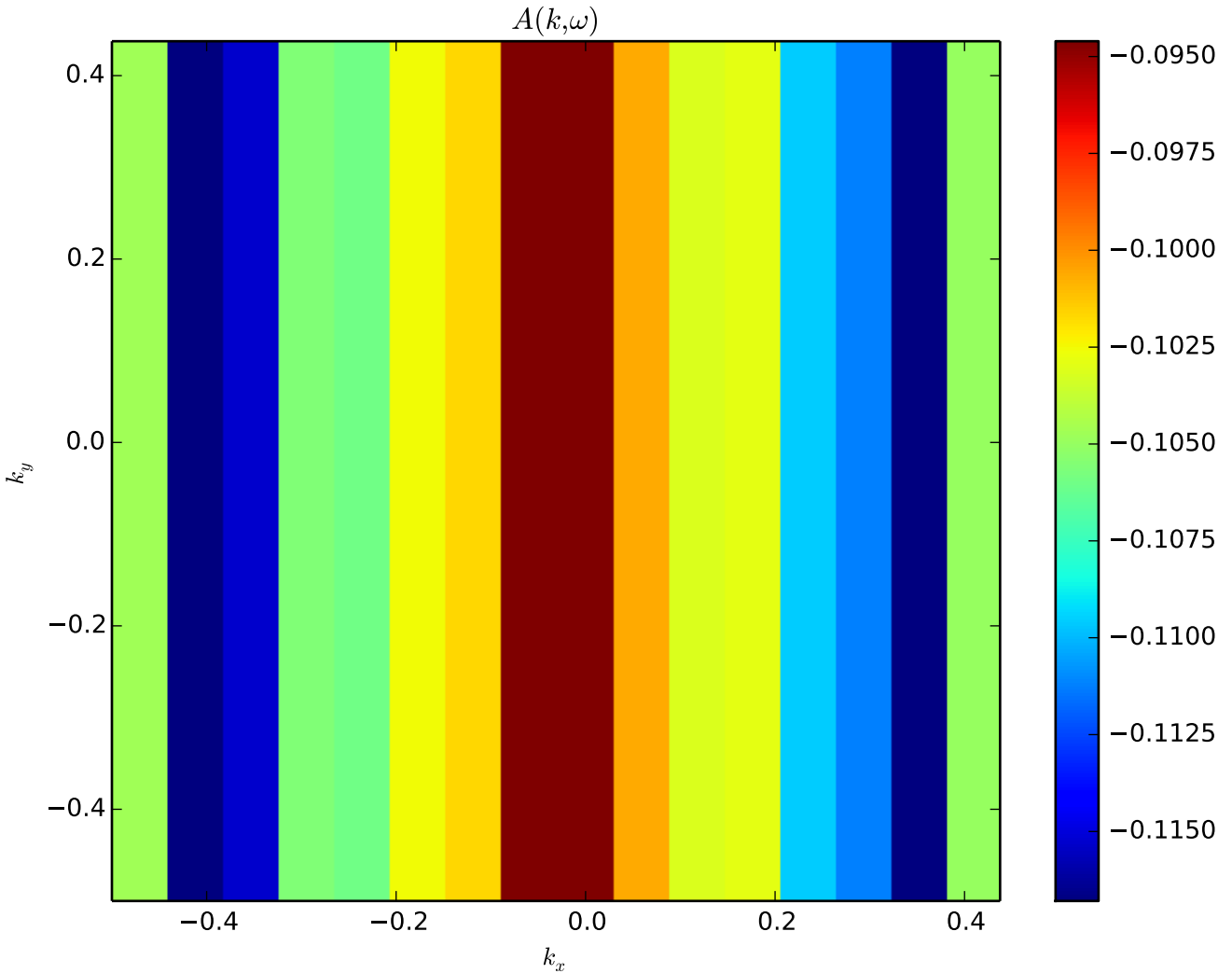

LDOS
1.5
1.0
0.5
0.0
−0.5
−10
−5
0
5
10
$\mathrm{Tr}G_{lat}(\omega)$
ω

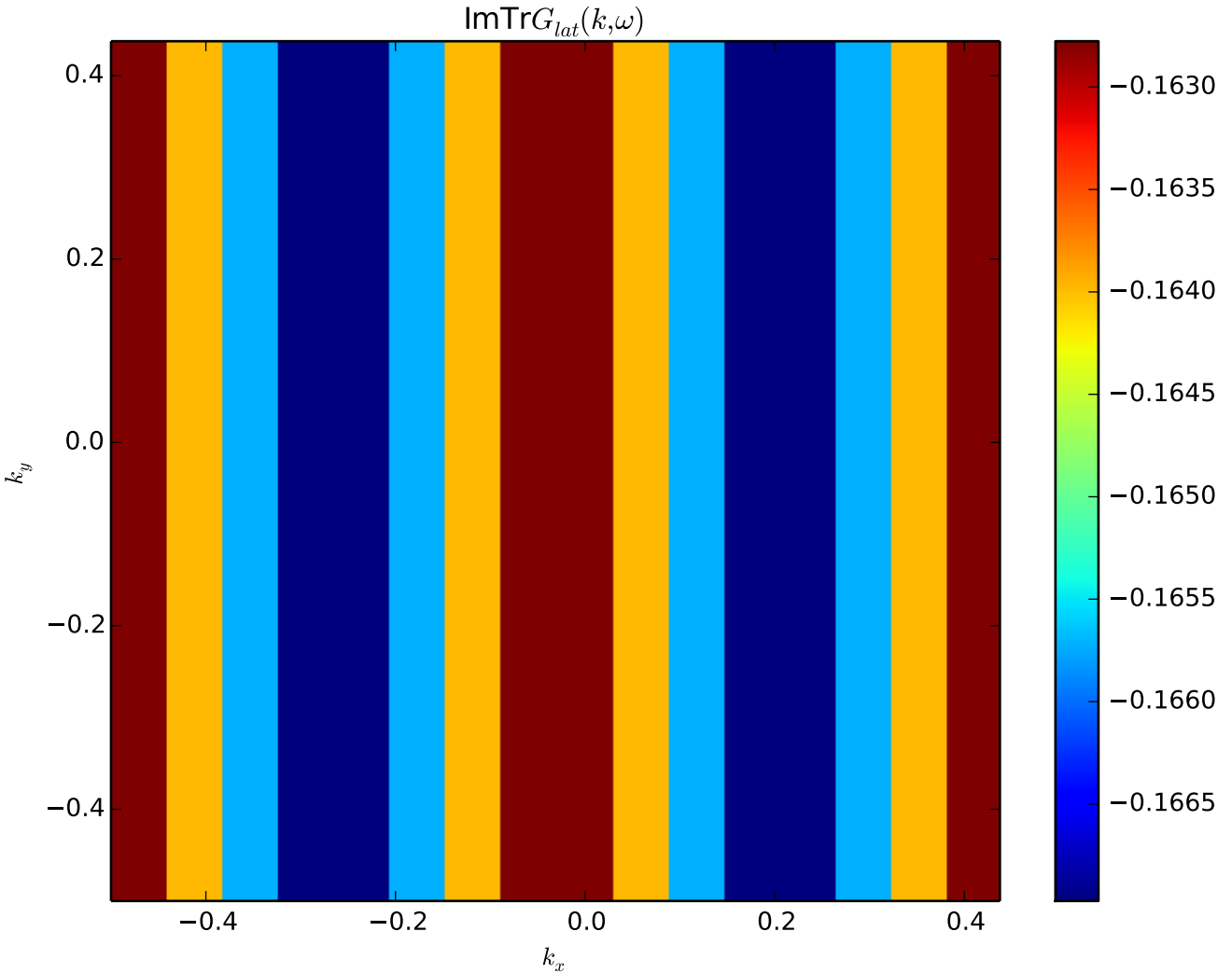

Re 0_0
Im 0_0
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
0
5
10
15
20
25
30
35
40
$G_{lat,loc}$_up$(i\omega_n)$
ω_n

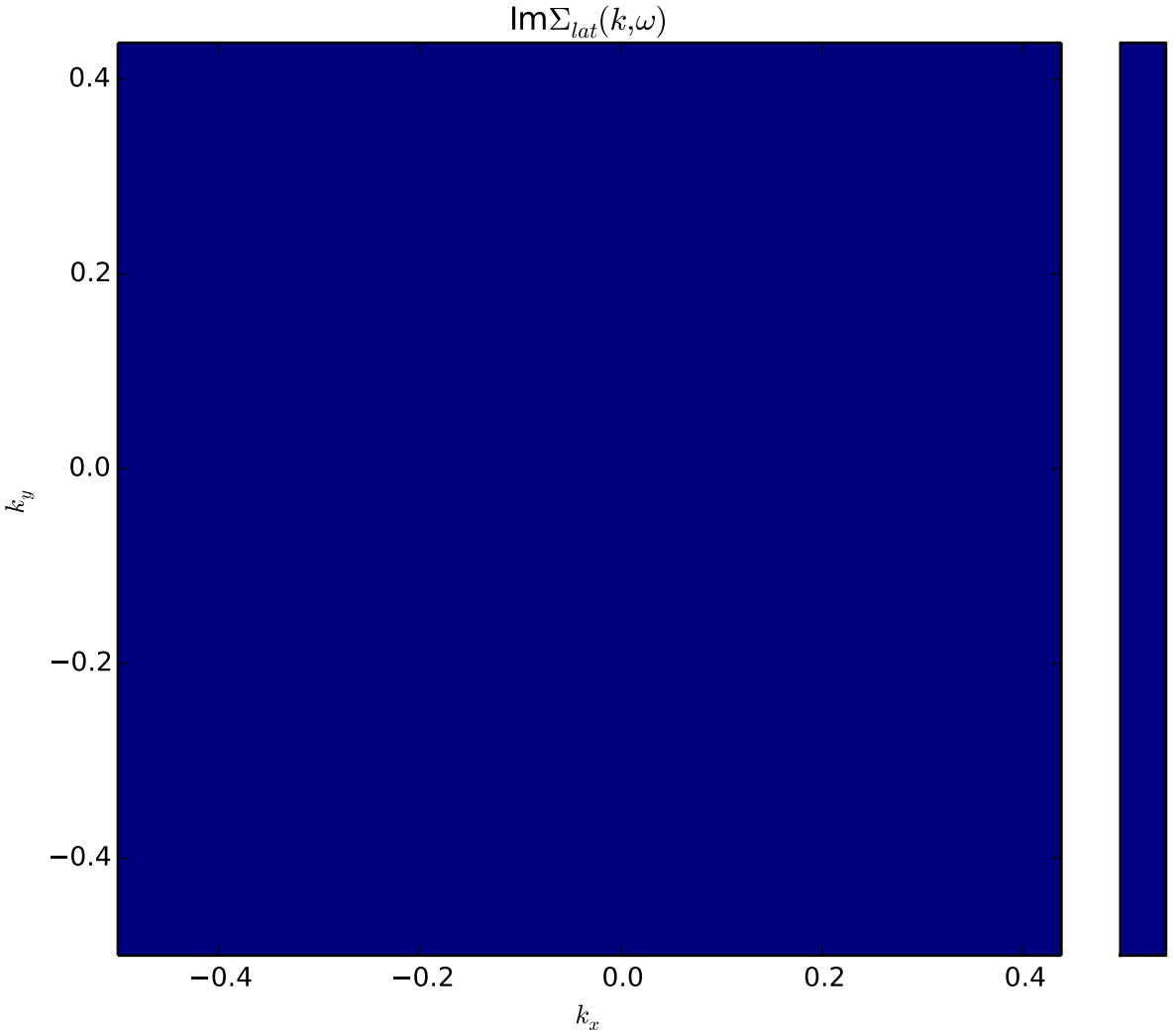

Re 0_0
Im 0_0
$\Sigma_{lat,loc}$_up$(i\omega_n)$
ω_n
2
0
−2
−4
−6
−8
−10
−12
0
5
10
15
20
25
30
35
40

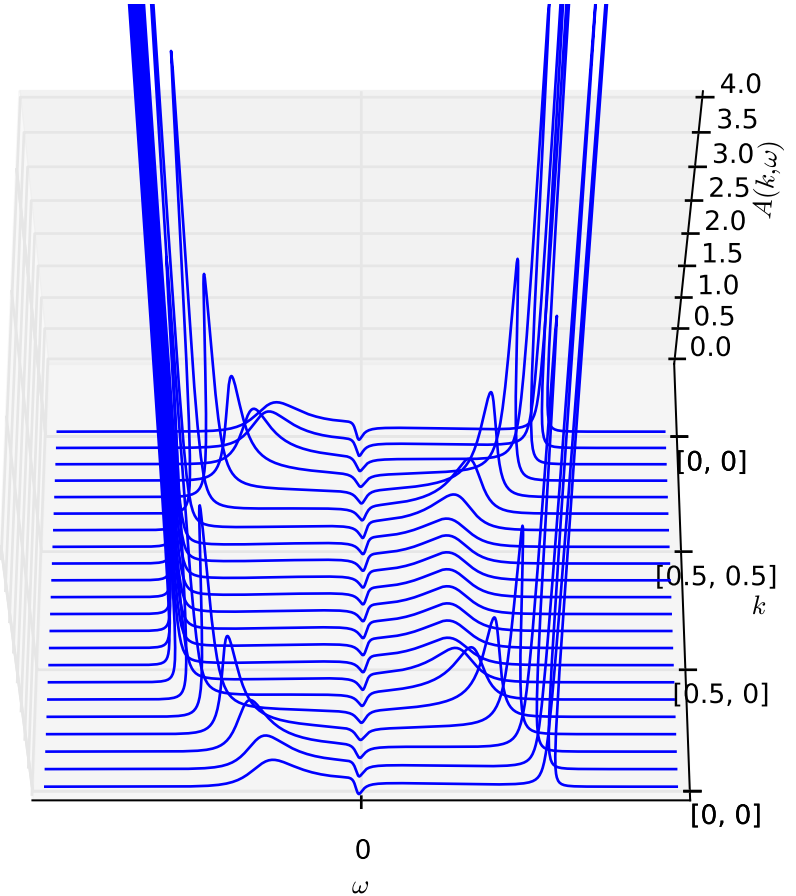

(0, 0)_up_(0, 0)
(0, 0)_up_(0, 0)
(0.5, 0)_up_(0, 0)
(0.5, 0)_up_(0, 0)
(0.25, 0.25)_up_(0, 0)
(0.25, 0.25)_up_(0, 0)
Σ_{lat}_up$(i\omega_n)$
ω_n
2
0
−2
−4
−6
−8
−10
−12
0
5
10
15
20
25
30
35
40

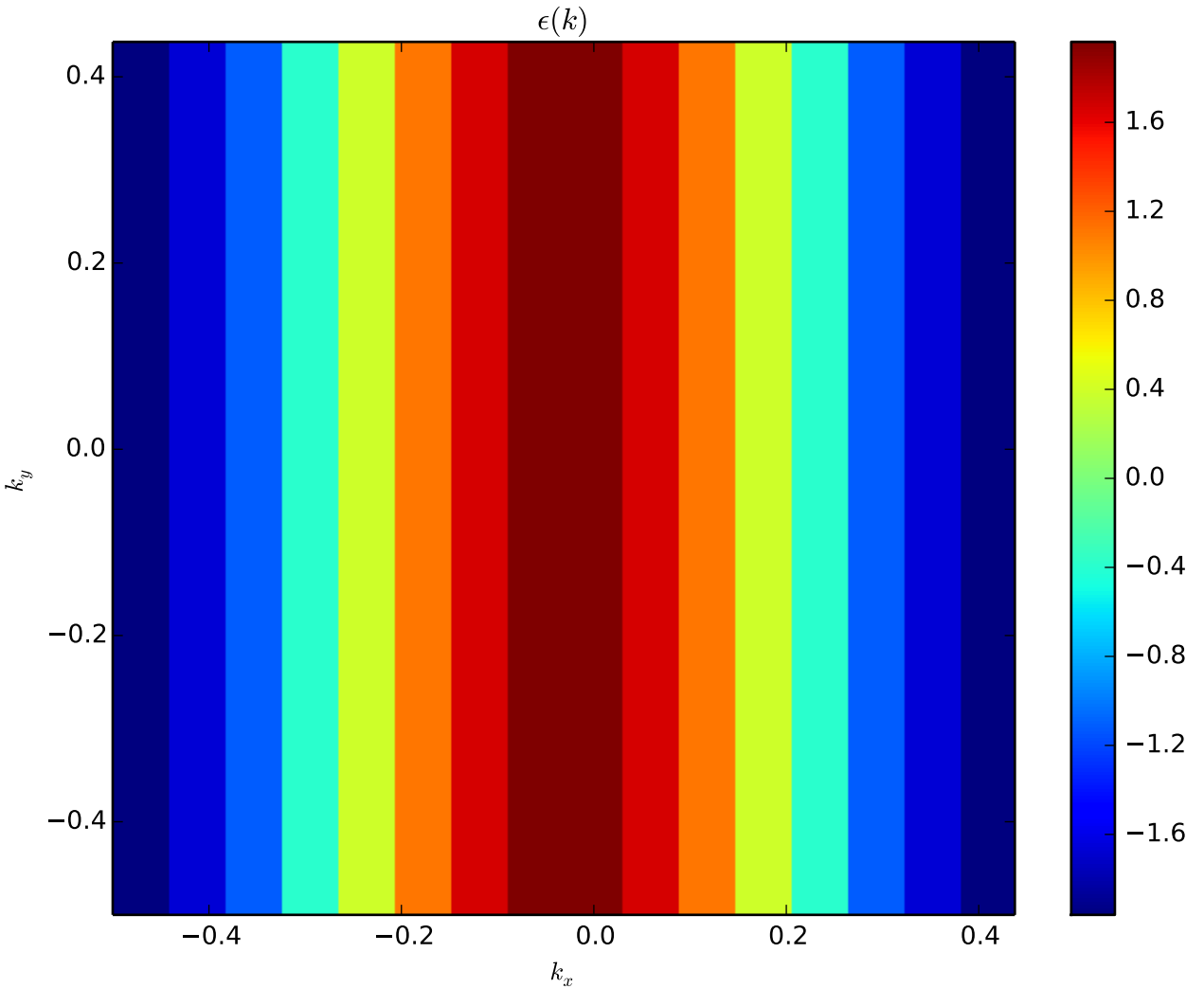

0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
0
5
10
15
20
25
30
35
40
$G_{lat}\_up(i\omega_n)$
ω_n
(0, 0)_up_(0, 0)
(0, 0)_up_(0, 0)
(0.5, 0)_up_(0, 0)
(0.5, 0)_up_(0, 0)
(0.25, 0.25)_up_(0, 0)
(0.25, 0.25)_up_(0, 0)


$A(k,\omega)$
0.4
0.2
0.0
−0.2
−0.4
k_y
−0.4
−0.2
0.0
0.2
0.4
k_x
−0.0950
−0.0975
−0.1000
−0.1025
−0.1050
−0.1075
−0.1100
−0.1125
−0.1150


ImTr$G_{lat}(k,\omega)$
0.4
0.2
0.0
−0.2
−0.4
k_y
−0.4
−0.2
0.0
0.2
0.4
k_x
−0.1630
−0.1635
−0.1640
−0.1645
−0.1650
−0.1655
−0.1660
−0.1665


Im$\Sigma_{lat}(k,\omega)$
0.4
0.2
0.0
−0.2
−0.4
k_y
−0.4
−0.2
0.0
0.2
0.4
k_x


4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
$A(k,\omega)$
[0, 0]
[0.5, 0.5]
k
[0.5, 0]
[0, 0]
0
ω


$\epsilon(k)$
0.4
0.2
0.0
−0.2
−0.4
k_y
−0.4
−0.2
0.0
0.2
0.4
k_x
1.6
1.2
0.8
0.4
0.0
−0.4
−0.8
−1.2
−1.6

l_dim.h5
- Periodization
  - bz_grid...
  - bz_weights...
  - d = 2
  - 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]
  - lattice_vectors
    - 0 = [1, 0, 0]
    - 1 = [0, 200, 0]
  - m_lat...
  - n_kpts = 16
  - 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 = Δ_{sym}
    - G_c_iw = G_c
    - G_sym_iw = G
    - G_sym_iw_unfitted = G
    - G_sym_l = G
    - Sigma_c_iw = Σ_c
    - cdmft_code_version = 1.00
    - density = 2.00035950693

loop_time = 37.1951539516
mu = 0
n_cpu = 1
parameters...
sign = 0.99448
sym_indices
0-down = [0]
0-up = [0]
1-down = [0]
1-up = [0]
triqs_code_version = 1.0
1
Delta_sym_tau = Δ_{sym}
G_c_iw = G_c
G_sym_iw = G
G_sym_iw_unfitted = G
G_sym_l = G
Sigma_c_iw = Σ_c
cdmft_code_version = 1.00
density = 1.99963297431
loop_time = 1417542527.67
mu = 0
n_cpu = 1
parameters...
sign = 0.9973
sym_indices
0-down = [0]
0-up = [0]
1-down = [0]
1-up = [0]
triqs_code_version = 1.0
2
Delta_sym_tau = Δ_{sym}
G_c_iw = G_c
G_sym_iw = G
G_sym_iw_unfitted = G
G_sym_l = G
Sigma_c_iw = Σ_c
cdmft_code_version = 1.00

density = 1.99931371695
loop_time = 62.7040047646
mu = 0
n_cpu = 1
parameters...
sign = 0.99778
sym_indices
0-down = [0]
0-up = [0]
1-down = [0]
1-up = [0]
triqs_code_version = 1.0

3

Delta_sym_tau = Δ_{sym}
G_c_iw = G_c
G_sym_iw = G
G_sym_iw_unfitted = G
G_sym_l = G
Sigma_c_iw = Σ_c
cdmft_code_version = 1.00
density = 2.00076323056
loop_time = 1417542553.13
mu = 0
n_cpu = 1
parameters...
sign = 0.99744
sym_indices
0-down = [0]
0-up = [0]
1-down = [0]
1-up = [0]
triqs_code_version = 1.0

4

Delta_sym_tau = Δ_{sym}
G_c_iw = G_c
G_sym_iw = G
G_sym_iw_unfitted = G
G_sym_l = G
Sigma_c_iw = Σ_c
cdmft_code_version = 1.00

density = 1.99812875894
loop_time = 88.0673725605
mu = 0
n_cpu = 1
parameters...
sign = 0.99764
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0

5

Delta_sym_tau = Δ_{sym}

G_c_iw = G_c

G_sym_iw = G
G_sym_iw_unfitted = G
G_sym_l = G
Sigma_c_iw = Σ_c

cdmft_code_version = 1.00
density = 1.9999018804
loop_time = 1417542578.4
mu = 0
n_cpu = 1
parameters...
sign = 0.99798
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0

6

Delta_sym_tau = Δ_{sym}

G_c_iw = G_c

G_sym_iw = G
G_sym_iw_unfitted = G
G_sym_l = G
Sigma_c_iw = Σ_c

cdmft_code_version = 1.00
density = 1.99881934443
loop_time = 113.44514966
mu = 0
n_cpu = 1
parameters...
sign = 0.9974
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0
7
Delta_sym_tau = Δ_{sym}
G_c_iw = G_c
G_sym_iw = G
G_sym_iw_unfitted = G
G_sym_l = G
Sigma_c_iw = Σ_c
cdmft_code_version = 1.00
density = 1.99983190818
loop_time = 1417542603.7
mu = 0
n_cpu = 1
parameters...
sign = 0.99682
sym_indices
    0-down = [0]
    0-up = [0]
    1-down = [0]
    1-up = [0]
triqs_code_version = 1.0
8
Delta_sym_tau = Δ_{sym}
G_c_iw = G_c
G_sym_iw = G
G_sym_iw_unfitted = G
G_sym_l = G
Sigma_c_iw = Σ_c

cdmft_code_version = 1.00
density = 1.99885268446
loop_time = 138.629606724
mu = 0
n_cpu = 1
parameters...
sign = 0.99746
sym_indices
0-down = [0]
0-up = [0]
1-down = [0]
1-up = [0]
triqs_code_version = 1.0
9
Delta_sym_tau = Δ_{sym}
G_c_iw = G_c
G_sym_iw = G
G_sym_iw_unfitted = G
G_sym_l = G
Sigma_c_iw = Σ_c
cdmft_code_version = 1.00
density = 2.00002225354
loop_time = 1417542628.97
mu = 0
n_cpu = 1
parameters...
sign = 0.99784
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 = Σ_c
archive = l_dim.h5

```
beta = 10
clipping_threshold = 0.01
clustersite_pos = [[-0.25, 0], [0.25, 0]]
density = False
hop
        (-1, 0)
                key = (-1, 0)
                val = [[ 0.  0.]
[-1.  0.]]
        (0, 0)
                key = (0, 0)
                val = [[ 0. -1.]
[-1.  0.]]
        (1, 0)
                key = (1, 0)
                val = [[ 0. -1.]
[ 0.  0.]]
impose_paramagnetism = True
lattice_vectors = [[2, 0, 0], [0, 200, 0]]
length_cycle = 25
make_histograms = False
max_time = -1
measure_g_l = True
measure_g_tau = False
measure_pert_order = False
mix_coeff = 1
mu = 0
n_cycles = 100000
n_iw = 1025
n_kpts = 32
n_legendre = 20
n_tau = 10001
n_warmup_cycles = 5000
symmetry_transformation = [[0.7071067811865475, 0.7071067811865475], [0.7071067811865475, -0.707106781186547
t = -1
u = 10
use_trace_estimator = False
verbosity =
```