```
for y = <all local rings>                    // OpenMP
  for j = <all jobs>
    compute G(m,theta_y,j) using FFT
  end j
end y

rearrange G(m,theta_y,j) among tasks // MPI

for m = <all local m>                        // OpenMP
  for l = [m;lmax]
    precompute recursion coefficients
  end l
  for y = <all rings in the map>             // SSE/AVX
    for l = [m;lmax]
      compute s_lambda_lm(theta_y)
      for j = <all jobs>
        compute contribution to a_lm(j)
      end j
    end l
  end y
end m
```