```
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>
        accumulate F(m,theta_y,j)
      end j
    end l
  end y
end m

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

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