



## Protocol: relion - 3D auto-refine

finished [Cite](#) [Help](#)

## Run

Run name relion - 3D auto-refine Comment

Run mode ☒ Continue ☐ Restart Host localhost Parallel Threads 1 MPI 3 Use queue? ☐ Yes ☒ No 

Wait for

Expert Level ☒ Normal ☐ Advanced[Input](#) [Reference 3D map](#) [CTF](#) [Auto-Sampling](#) [Movies](#) [Compute](#)

## Reference 3D map

Input volume xmipp3 - swarm consensus.outputVolume

Reference mask (optional)

Is initial 3D map on absolute greyscale? ☐ Yes ☒ No 

Symmetry o

Initial low-pass filter (A) 60.0

Close

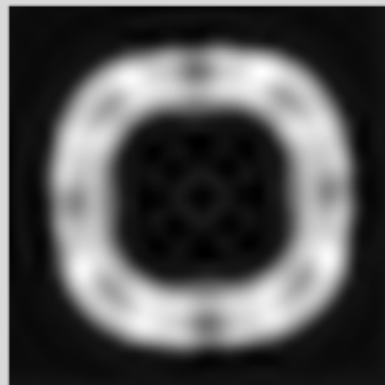
Save

Execute

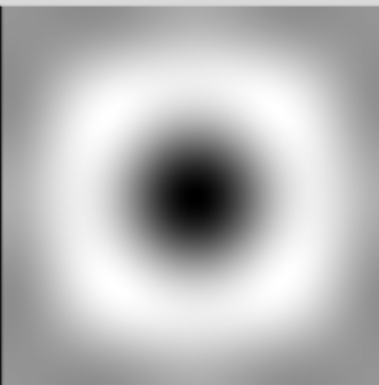
## Wizard

## Object

volumeAvg.vol



Image



Filtered

Frequencies (A)

60.1

Freq

Select

Cancel