

# JEOL Extended TEM

## How to get particle results

Written October 2001

Use the following to get particle area, to get other statistics, vary the criteria at the classification stage.

1. Load image
2. Zoom in to see particles clearly
3. Image – Set Threshold. Don't worry about particle overlap
4. Operation – Binarize
5. Operation – Morphological Filter – Separate Particles
6. Operation – Morphological Filter – Skeleton Dark
7. Move separated image to image buffer 1
8. Move skeleton image to image buffer 2
9. Select image buffer 2
10. Operation – Arithmetic – Logic AND
11. Measure – Define Classification
12. Classification – e.g. select 'sample area'
13. Tick 'Show Sample Objects'
14. Compute, and fill in maximum and minimum values and therefore work out a sensible number of bins
15. Click on 'sheet' if you want a record of the classes
16. OK
17. Analysis – Classify, Criterium = area  
Class = sample area  
Measure label = ID class
18. Execute – OK
19. Analysis – Delete Particles, remove any that seem wrong
20. Analysis – Particle Results, file – save as.....
21. To get a statistic sheet, right click