

Workshop 7

1. Classify the eight galaxies of different types.
2. Estimate the average percentage of ellipticals, spirals and irregulars for the Virgo cluster from the image provided. You do not need to classify them fully – just whether they are E, S or Irr. Please do not draw or mark the images - they will be needed by other classes. Start with the brighter galaxies and work towards the fainter ones. Try to classify at least 10 galaxies to get good statistics.
3. Estimate the average percentage of ellipticals, spirals and irregulars in part of the Hubble Ultra-Deep Field image provided. Compare to that in the Virgo cluster and comment.
4. Consider the images of M101 at different wavebands provided. Write down what component of the spiral galaxy we are mostly seeing at each waveband and why. Use the Wien Displacement law where appropriate to justify your conclusions.