

# Selection of Homework Questions

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## Topic 2: Morphological Classification

**(1) History** : Write a brief (1-2 page) history of galaxy classification, covering the period 1850 - 2000. Include a bibliography.

**(2) Classification** : Read deVaucouleurs' article in Handbuch der Physik (p281 - 284 and p287 - 303) : [\[ o-link \]](#) so that you become familiar with his classification scheme.

This [\[ link \]](#) takes you to 14 galaxy images for you to classify on the deVaucouleurs scheme. Be as complete as you can be, but no more. For each galaxy, write a brief justification of your assigned type.

**(3) Luminosity Classes** : Go to the RSA (either the hardcopy or web version : [\[ o-link \]](#)) and read section V so that you become familiar with van den Bergh's Luminosity Classes (I - V). If you can, assign luminosity classes to the galaxies in question (2).

**(4) Automated Classification** : Use the Web to search for information on "Automated Galaxy Classification". Write a brief (1 page) summary of the current status of this subfield in astronomy. Include a bibliography.

**(5) Hubble Sequence** : List all the properties (morphological and non-morphological) that vary systematically along the Spiral Hubble sequence (T = 0 to 10, exclude ellipticals and S0s). Discuss, briefly, what physical processes account for these trends.

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