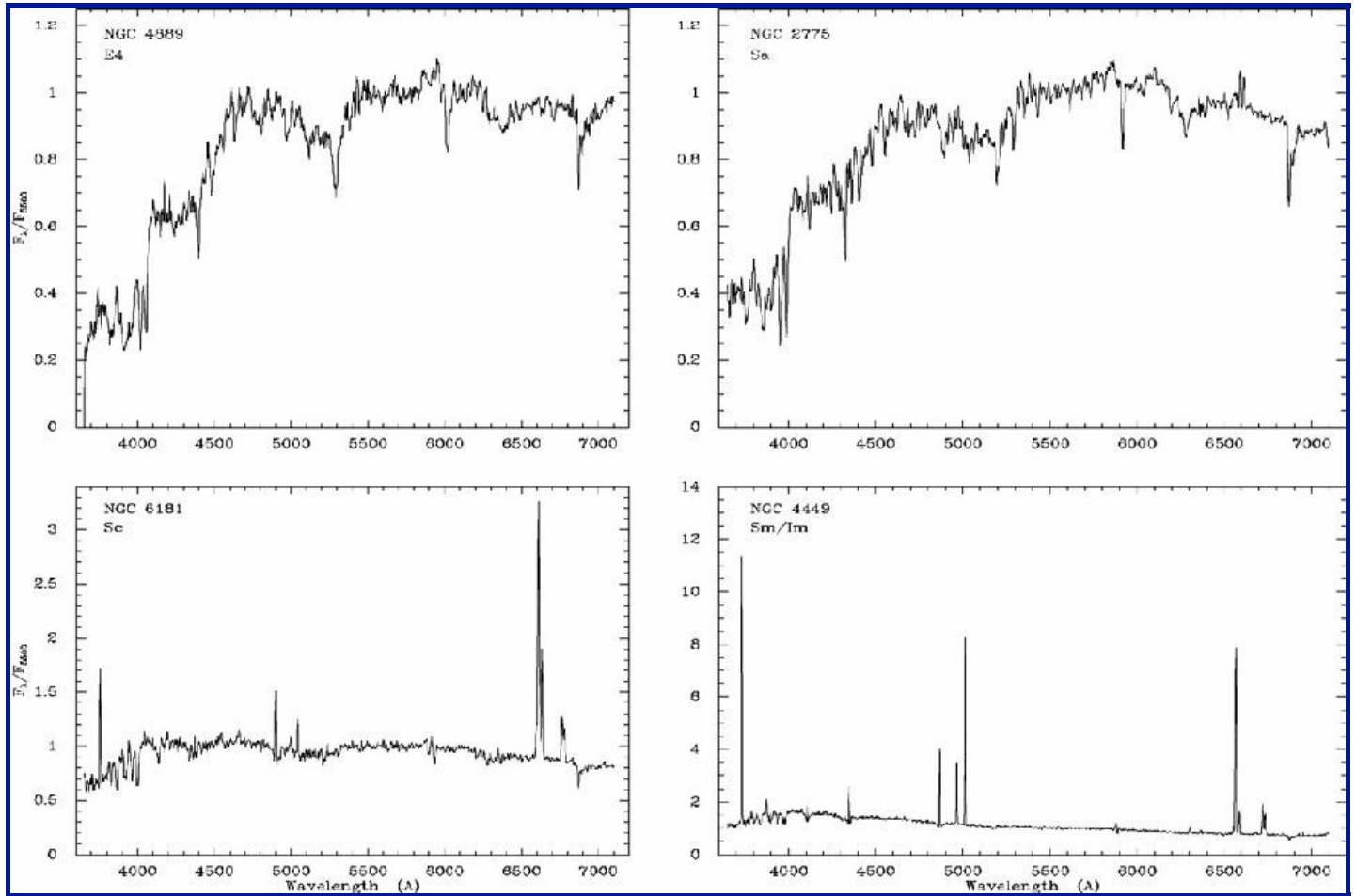


Normal Galaxy Spectra



Optical Spectra of Four Normal Galaxies

Large aperture (i.e. integrated light) spectra of four nearby normal galaxies spanning the Hubble Sequence: E4, Sa, Sc, Sm/Im. Notice the gradual change in overall stellar populations, and increase in emission line strength from early to late Hubble types.

Note: most spectra use 2-4 arcsec apertures, giving only nuclear light for nearby galaxies. In this case, Kennicutt used a 60 arcsec aperture to include nucleus, bulge, and disk light. This now allows a true comparison with small aperture spectra of distant galaxies.

Source: Kennicutt 1998, ARAA, **38** 189; Fig 1.

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