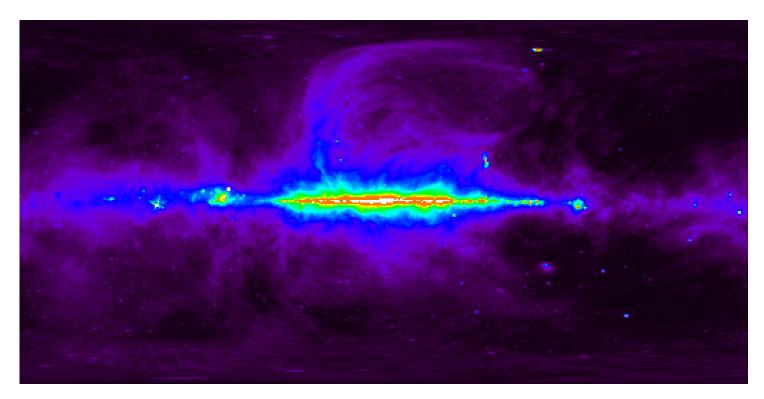


Radio image of the Galaxy at 408 MHz



What do we see? Electrons moving close to the speed of light.

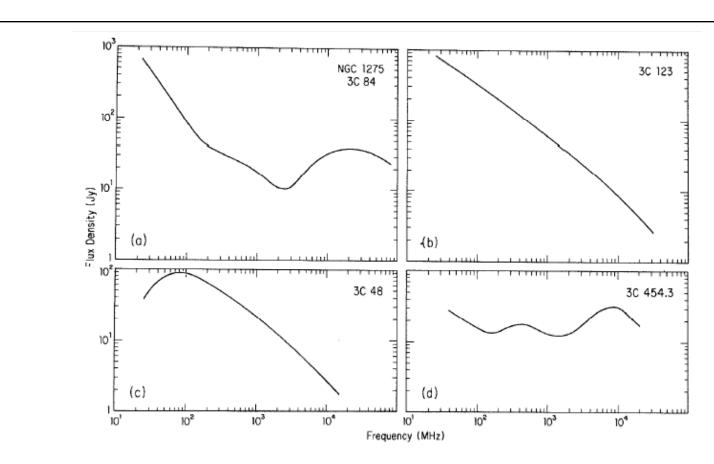
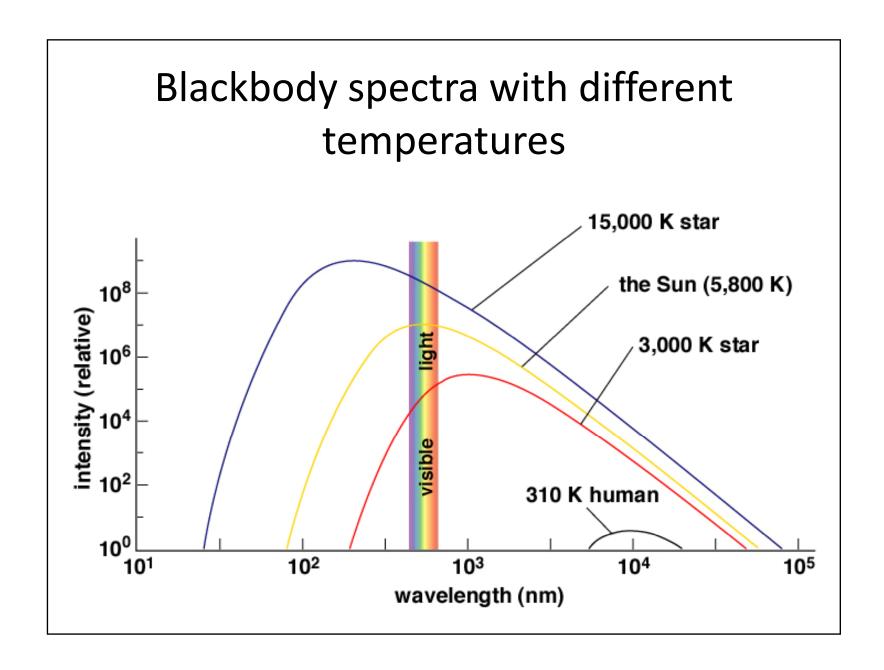
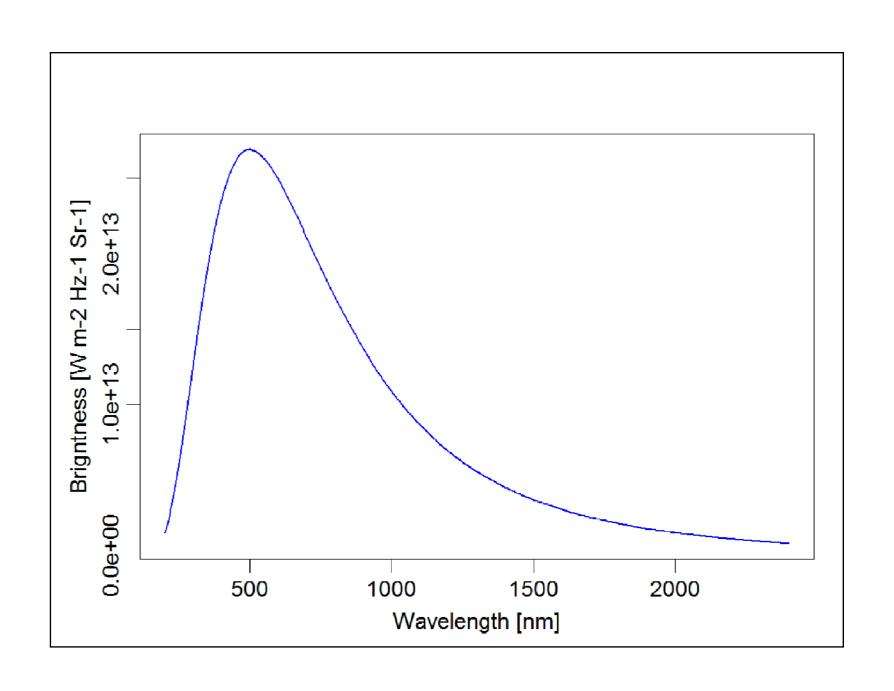
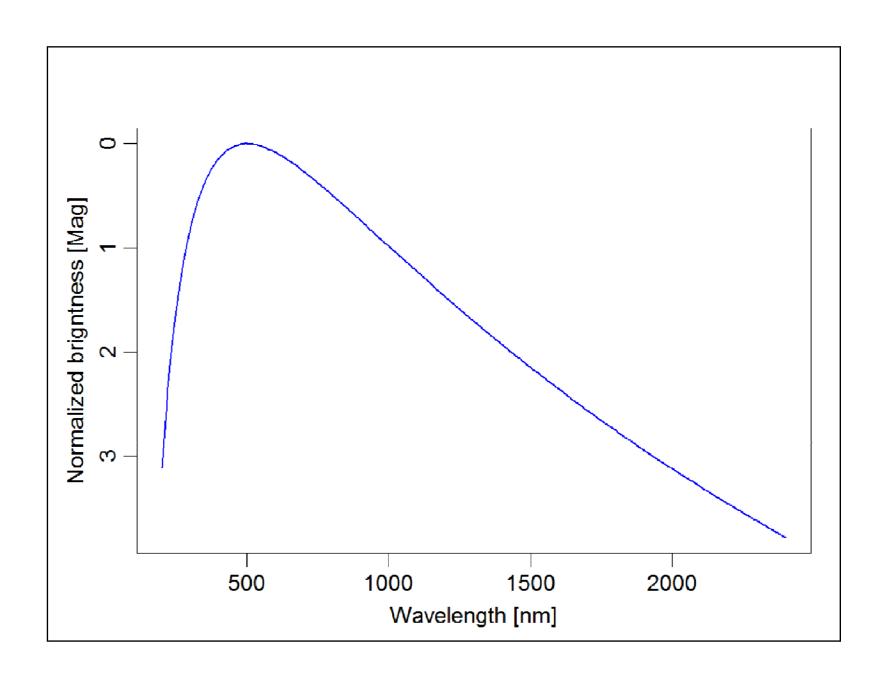
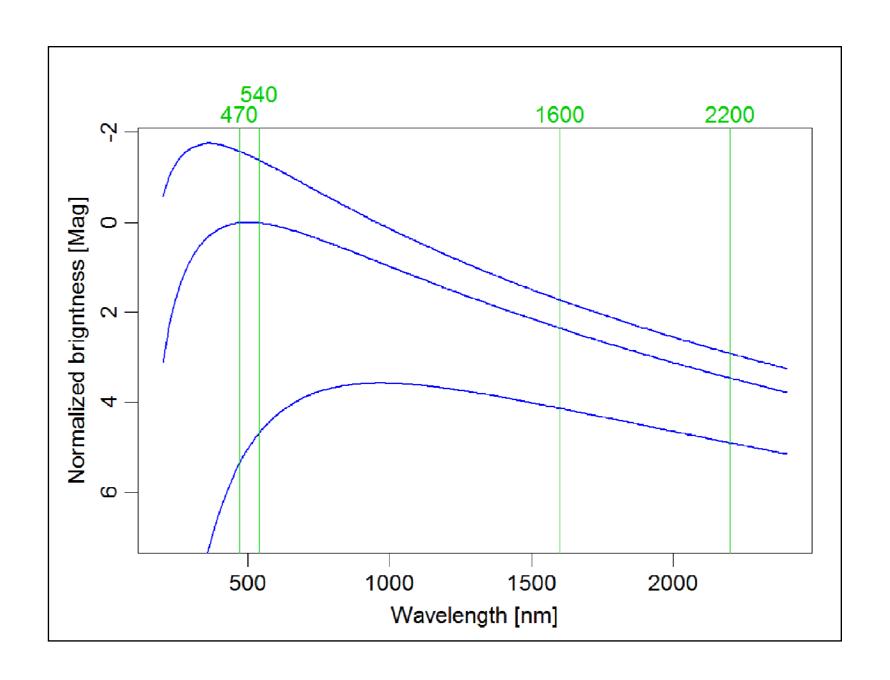


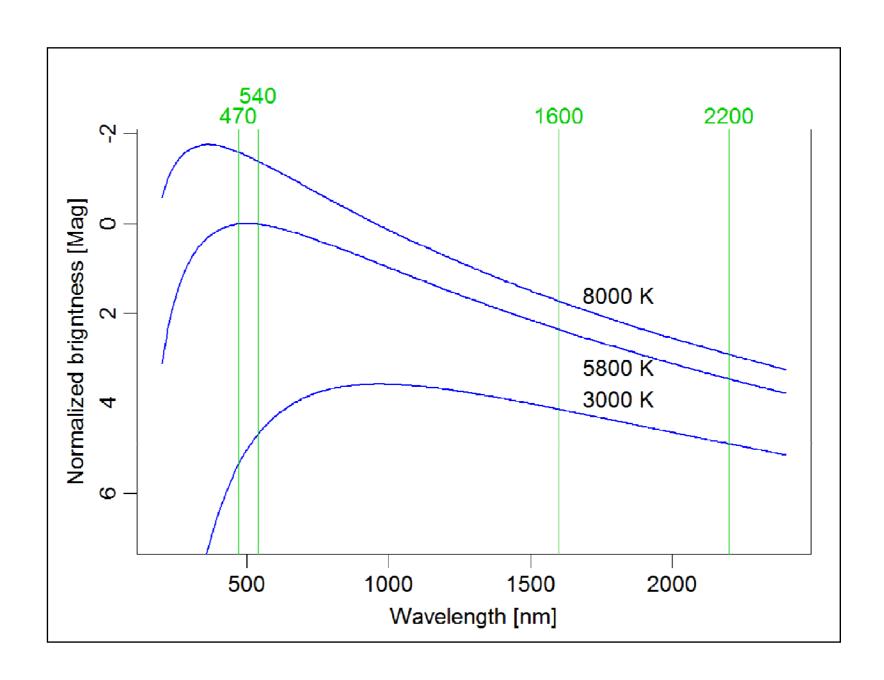
Figure 5.8: Representative spectra of radio galaxies and quasars [111]. The radio source 3C 84 in the nearby galaxy NGC 1275 contains a very compact nuclear component that is opaque below about 20 GHz. The radio galaxy 3C 123 is transparent at all plotted frequencies, and energy losses steepen its spectrum above a few GHz. The quasar 3C 48 is synchrotron self-absorbed only below 100 MHz, while the quasar 3C 454.3 contains structures of different sizes that become opaque at different frequencies.

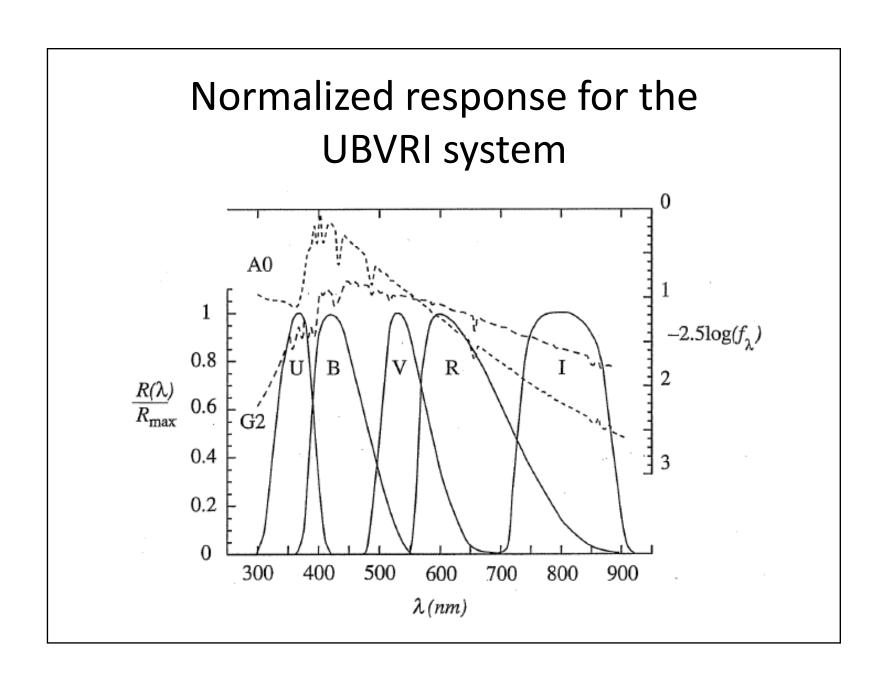






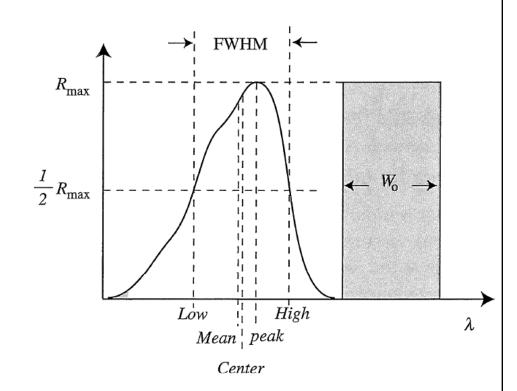


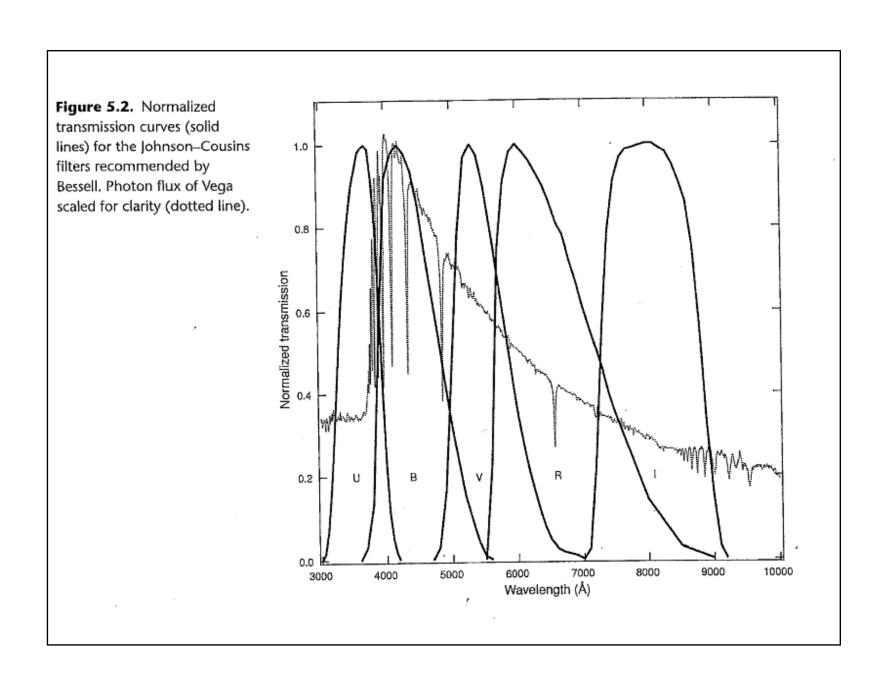


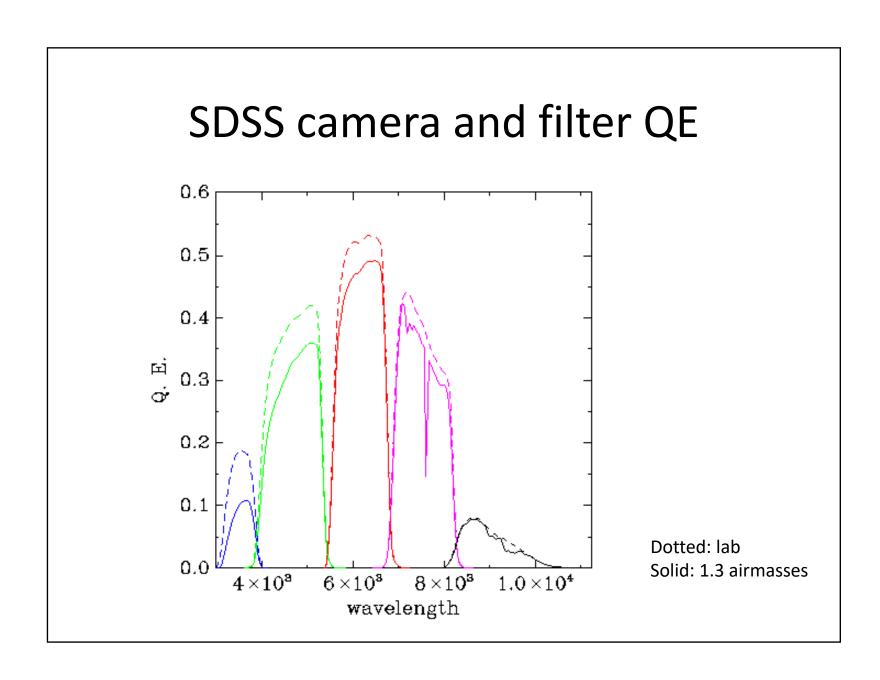


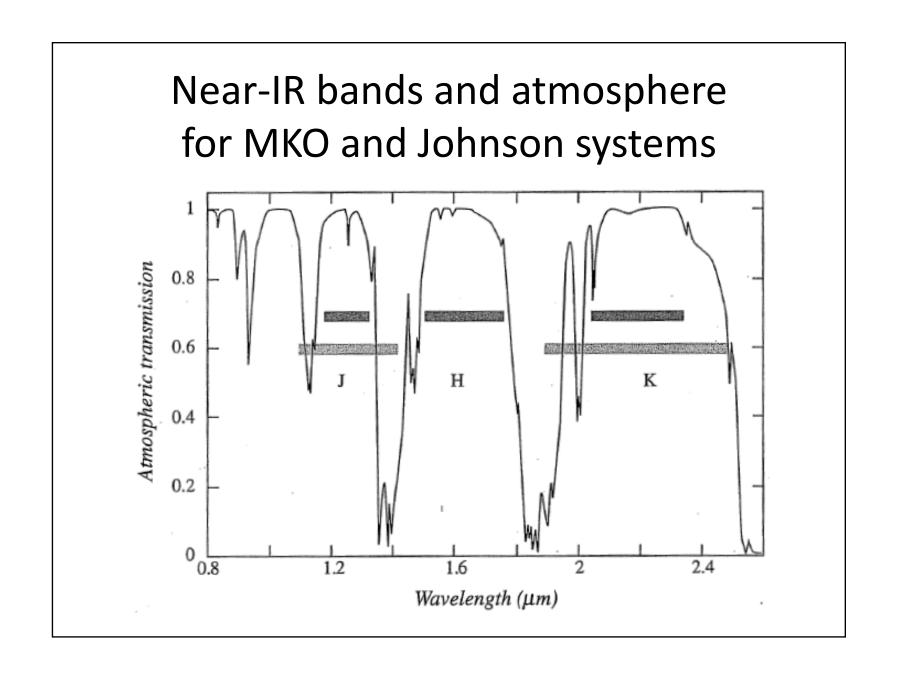
Filter width, effective wavelength

Fig. 10.4 Definitions of the middle and width of a band. The curve shows the function $R(\lambda)$. The mean wavelength divides the area under the curve into two equal parts (shaded and unshaded). The dark-gray rectangle has a width equal to the bandwidth and an area equal to the area under the curve.









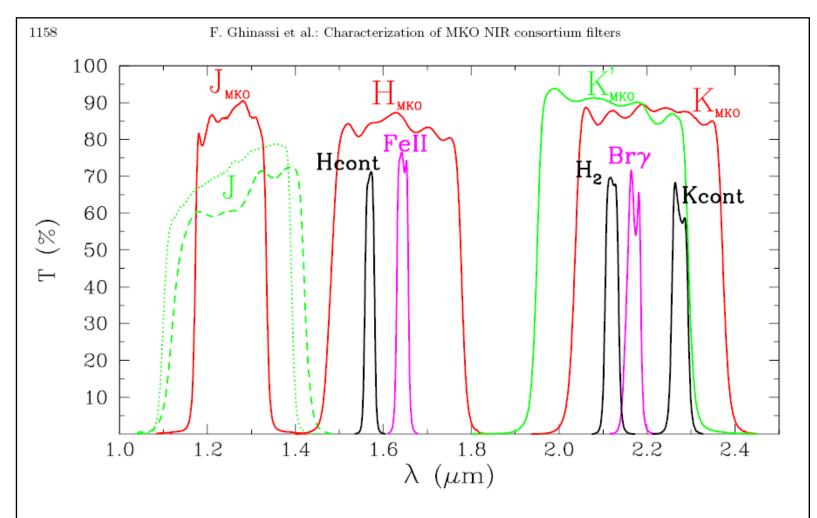


Fig. 1. Overview of the transmission curves of the filters of Mauna Kea Observatories (MKO) near infrared filter consortium. The data were taken at a temperature of 78 K and with the broad and narrow band filters illuminated at an incidence angle of 5° and 3°, respectively. For comparison, we also include the curve relative to the "standard J" filter of NICS measured in the same conditions (dashed line) as well as that of the "standard J" filter used in the SOFI and ISAAC instruments of ESO (dotted line). The data for the ESO filter were downloaded from the ISAAC web page.

