

## Homework 4

### Magnitudes

- 1 Two objects from the SDSS survey have  $g=17$  and  $g=19.5$ , respectively. Which is brighter, and by how much?
- 2 Star A has  $V=12$ , star B has  $V=14.5$ . Which is brighter, and by how much?
- 3 A star has  $B-V=0$ . What does that imply about the slope of its spectrum? Is the slope independent of whether  $F_\nu$  or  $F_\lambda$  is being plotted? If not, how do they differ?