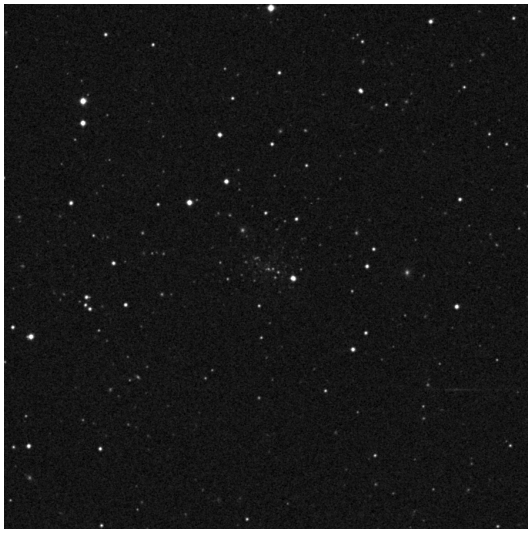
1. **What differences do you notice between the pictures? Are the pictures oriented the same way, or are they rotated and/or flipped? Does one picture show fainter stars than the other? Does one show more detail? Does one show better color?**

   The SDSS picture has better color but the POSS picture might have better resolution. The POSS picture seems to be rotated from the SDSS picture and the SDSS picture shows fainter stars.



2. **Compare the new images you obtained from the SDSS and the POSS I. What do you think are the most important differences between the images?**
   The most important difference is the color as SDSS is much clearer.

3. 

Exercise 1 - Done

4. **How do the two images appear different? What do they have in common?**
   The SDSS images have a much higher resolution.

5. **Based on these two images, what do you think are the advantages of looking at an object in the infrared instead of the visible spectrum?**
   Objects can sometimes emit more powerful radiation in the infrared spectrum or it could be not blocked by dust in space.

Exercise 2 - Done
Exercise 3 - ROSAT Search Page doesn't load–maybe the website is too old.

6. ROSAT Search Page doesn't load–maybe the website is too old.

7. Using different regions of the electromagnetic spectrum can lead to finding different things. Since x-rays contain more energy, they might be more intense and therefore can be seen better than visible light can.

Exercise 4 - Done