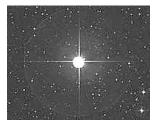
Welcome to Stars, Galaxies, and the Universe Fall 2010

- Initial pleasantries, who I am, who you are
- This should be the most interesting course you take in college



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18 Scorpii...my favorite star

orite star

Let's see where 18 Scorpii is in the night sky, using the on-line stars charts



So what's the big deal with 18 Scorpii relative to all the other stars in the night sky?





18 Scorpii is often referred to as "The Solar Twin"

What does it mean for stars to be "twins"?

Example 2: The "Dark Matter"

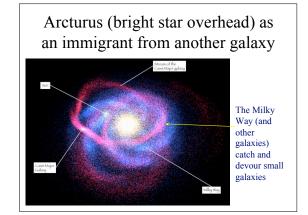


Modern Astronomy has discovered that **most** of the matter in the universe is not normal matter like that which makes up rocks and your bodies. Only about 20% is "Baryonic matter".



What is the evidence for this statement? If not "normal matter", what is it?

Example 3: Arcturus (see it tonight) Roo Gaves-27 Roo Bro-25 Roo Bolta-G. Polither ta. Distance: 37 light years



Stay tuned! Details from the Syllabus

The Sky Tonight

- Arcturus and Spica in the west (stars)
- Three planets in the western sky after sunset (Venus, Mars, Saturn)
- Antares (star) in the south
- Vega (star) and the Milky Way overhead
- The Andromeda Nebula in the east
- Jupiter (planet) in the east after 9 PM or so

