

Wed 16 Feb 05 zeus.colorado.edu/astr1120-toomre













Stellar	<u>MAGNITUPES</u> : BLAME WEIRO STALE ON GREEKS AND REPAIR BY HERSOLL 1. <u>GREEKS ARSIGNED</u>
MAGNITUDES	BRIGHTELT STAR MAGNITURE 1 DIMESSANCE OF FAILWTELT STAR VISIBLE TO EVE MAG 6 5 "MAGNITURE"
	2. HERSCHEL CONCLUDED THIS WAS ABout 100:1 IN BRIGHTNESS
Weird system: brighter is smaller	ASSIGNED APPARENT MAGNITUDE M _Y = 0 TO BRIGHT STORS VEGA AND RIGELKENT
<u>magnitude</u> , even negative!	3. NOW THE PRESENT SYSTEM : BRIGHTNESS UP ↑ 84 FACTOR 2.512
Of <u>cultural</u> <u>importance</u> , even if a bit confusing (secret society!)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$









Stellar puzzle

• Two stars, Antony and Cleopatra, are both of spectral class M3, and of the <u>same</u> apparent brightness (magnitude) in the sky. Cleopatra shows <u>narrow absorption</u> <u>lines</u> in her spectrum, Anthony <u>broad</u> ones. Which star must be far more distant?

Β.

- A. Antony
- B. Cleopatra













