





























	Table 7.1 Galactic center distance estimate	Table 7.1 Galactic center distance estimates	
Galactic center	Method D	istance/kpc	
 huge reddening problems 	H ₂ O masers	7.2 ± 0.7	
A near test of distance indicate	RR Lyrae stars	7.8 ± 0.4	
	Globular clusters	8.0 ± 0.8	
	Cepheids	8.0 ± 0.5	
_MC	Red clump stars	8.4 ± 0.4	
 all stars at ~ same distance, yet c enough to see stars far down the enough to see stars far down the 	Mose. main Table 7.2 LMC distance estimates		
sequence	Method	Distance/kpc	
ideal lab for studying relative	Main Sequence Fitting	50 ± 5	
luminosities	Cepheids	50 ± 2	
luminosides.	RK Lyrae	44 ± 2 52 ± 3	
 RR Lyrae distance scale looks wr 	ONG. SN1987a Baade–Wesselink method	52 ± 5 55 ± 5	
M31		nce estimates	
another good lab for comparing, although farther away	Table 7.3 Andromeda Galaxy (M31) dista	Distance /len	
 another good lab for comparing, although farther away. 	Table 7.3 Andromeda Galaxy (M31) dista Method	Distance/kp	
 another good lab for comparing, although farther away. M31 is same mass as distant spir 	Table 7.3 Andromeda Galaxy (M31) distant Method Cepheids Cepheids D I	Distance/kp 760 ± 50 750 ± 50	
 another good lab for comparing, although farther away. M31 is same mass as distant spir (unlike LMC). 	Table 7.3 Andromeda Galaxy (M31) distant Method Cepheids RR Lyrae Planetary Nebula Luminosity Function	$\begin{array}{c} \text{Distance/kp} \\ \hline 760 \pm 50 \\ 750 \pm 50 \\ \text{n} \\ 750 \pm 50 \end{array}$	
 another good lab for comparing, although farther away. M31 is same mass as distant spir (unlike LMC). 	Table 7.3 Andromeda Galaxy (M31) dista Method Cepheids RR Lyrae Planetary Nebula Luminosity Functio Globular Cluster Luminosity Function	$\begin{array}{r} \hline Distance/kp \\ \hline 760 \pm 50 \\ 750 \pm 50 \\ n \\ 750 \pm 50 \\ n \\ 700 \pm 60 \\ \hline \end{array}$	

