

P_{mas}

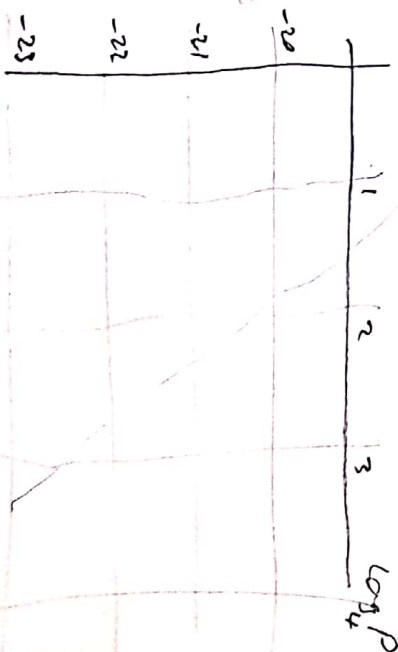
Milky Way Cepheids:

Object	Parallax	err(par)	Period	m_V	m_I	A_V	err(A_V)	logP	dpc	mu	M_V	M_I
l-Car	2.01	0.20	35.551341	3.732	2.557	0.52	0.06	3.5710	497.512	26.048	-22.836	-23.780
zeta-Gem	2.78	0.18	10.150730	3.911	3.085	0.06	0.03	2.3175	359.712	24.427	-20.576	-21.375
beta-Dor	3.14	0.16	9.842425	3.751	2.943	0.25	0.05	2.2867	318.471	23.818	-20.317	-21.014
W-Sgr	2.28	0.20	7.594904	4.667	3.862	0.37	0.03	2.0275	438.596	25.418	-21.121	-21.762
X-Sgr	3.00	0.18	7.012877	4.556	3.661	0.58	0.10	1.9477	333.333	24.046	-20.070	-20.707
Y-Sgr	2.13	0.29	5.773380	5.743	4.814	0.67	0.04	1.7533	469.484	25.758	-20.685	-21.317
delta-Cep	3.66	0.15	5.366270	3.960	3.204	0.23	0.03	1.6801	273.224	23.051	-19.321	-19.975
FF-Aql	2.81	0.18	4.470916	5.372	4.510	0.64	0.06	1.4976	355.872	24.373	-19.641	-20.219
T-Vul	1.90	0.23	4.435462	5.752	5.052	0.34	0.06	1.4896	526.316	26.330	-20.918	-21.467
RT-Aur	2.40	0.19	3.728190	5.464	4.778	0.20	0.08	1.3159	416.667	25.161	-19.897	-20.495

$$M_V = \alpha_V \log P + \beta_V$$

intercept

M_V



distance
(parsecs)

μ
(m-m)

$$M_V = m_V - 5 \log d_{pc} + 5 \pm A_V$$

Extinction