

Table 1: Median Reduced χ^2 : 0.95 – Maximum-Likelihood Reduced χ^2 : 1.0

Parameter	Median and 1σ Values	Maximum-Likelihood
P (days)	$71.69008^{+0.00036}_{-0.00033}$	71.68995
t_{tran} (days)	$43072.588^{+0.056}_{-0.054}$	43072.596
$ecos\omega$	$-0.0002^{+0.0013}_{-0.0020}$	0.0
$esin\omega$	$0.0006^{+0.0022}_{-0.0012}$	0.0
K_1 (km/s)	$30.076^{+0.072}_{-0.071}$	30.057
$\gamma_1(km/s)$	$1.88^{+0.33}_{-0.34}$	1.94
$\gamma_2(km/s)$	$1.79^{+0.24}_{-0.24}$	1.72
$\gamma_3(km/s)$	$1.27^{+0.53}_{-0.53}$	1.21
$\gamma_4(km/s)$	$0.72^{+0.13}_{-0.13}$	0.62
$\gamma_5(km/s)$	$0.978^{+0.077}_{-0.076}$	1.015
$\gamma_6(km/s)$	$0.69^{+0.13}_{-0.13}$	0.59
$\gamma_7(km/s)$	$0.40^{+0.12}_{-0.12}$	0.49
$\sigma_j^2(km/s)^2$	$0.044^{+0.078}_{-0.033}$	0.223
$M_{error,1}$	$0.29^{+0.25}_{-0.12}$	0.21
$M_{error,2}$	$0.97^{+0.38}_{-0.25}$	0.99
$M_{error,3}$	$2.0^{+2.7}_{-1.1}$	1.1
$M_{error,4}$	$1.02^{+0.38}_{-0.27}$	0.84
$M_{error,5}$	$0.68^{+0.17}_{-0.13}$	0.46
$M_{error,6}$	$0.68^{+0.52}_{-0.28}$	0.41
$M_{error,7}$	$0.95^{+0.79}_{-0.43}$	0.46
e	$0.0019^{+0.0021}_{-0.0014}$	0.0
ω (deg)	68^{+74}_{-175}	4.0

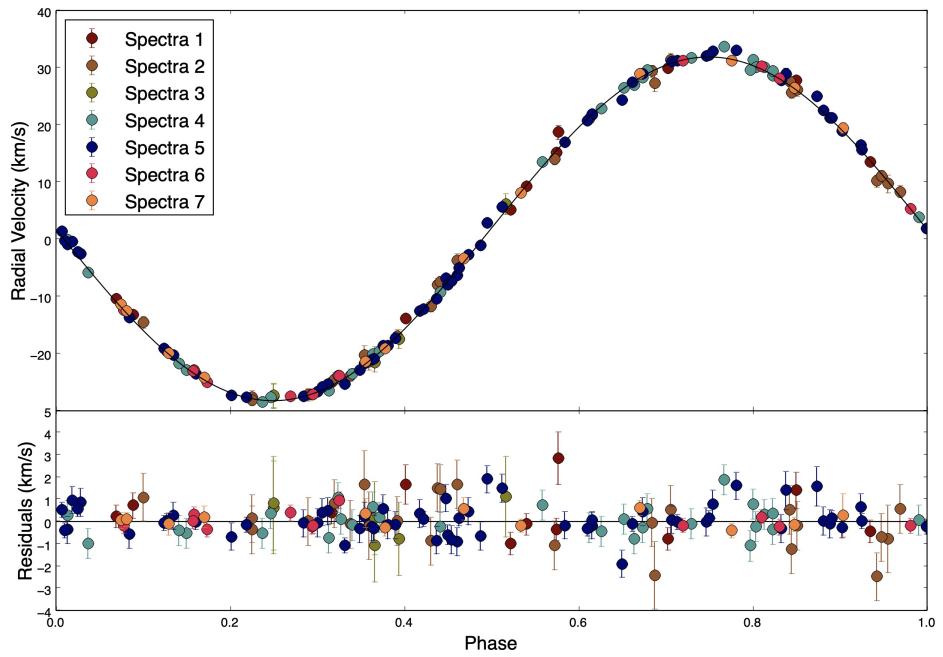


Figure 1: RV fit to median MCMC parameters. RMS residual velocity of 0.77 km s^{-1} .

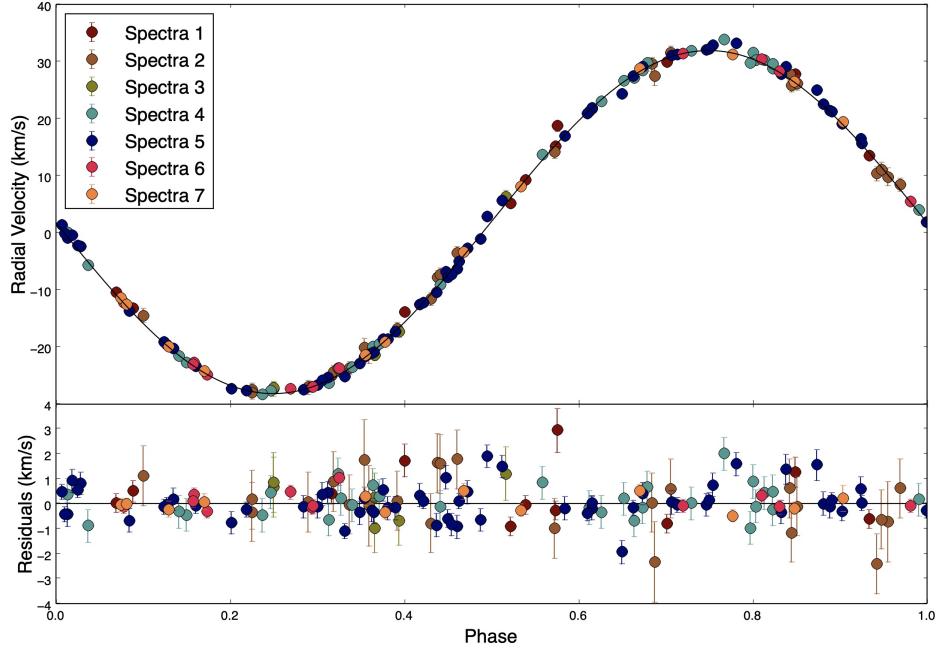


Figure 2: RV fit to maximum-likelihood MCMC parameters. RMS residual velocity of 0.78 km s^{-1} .

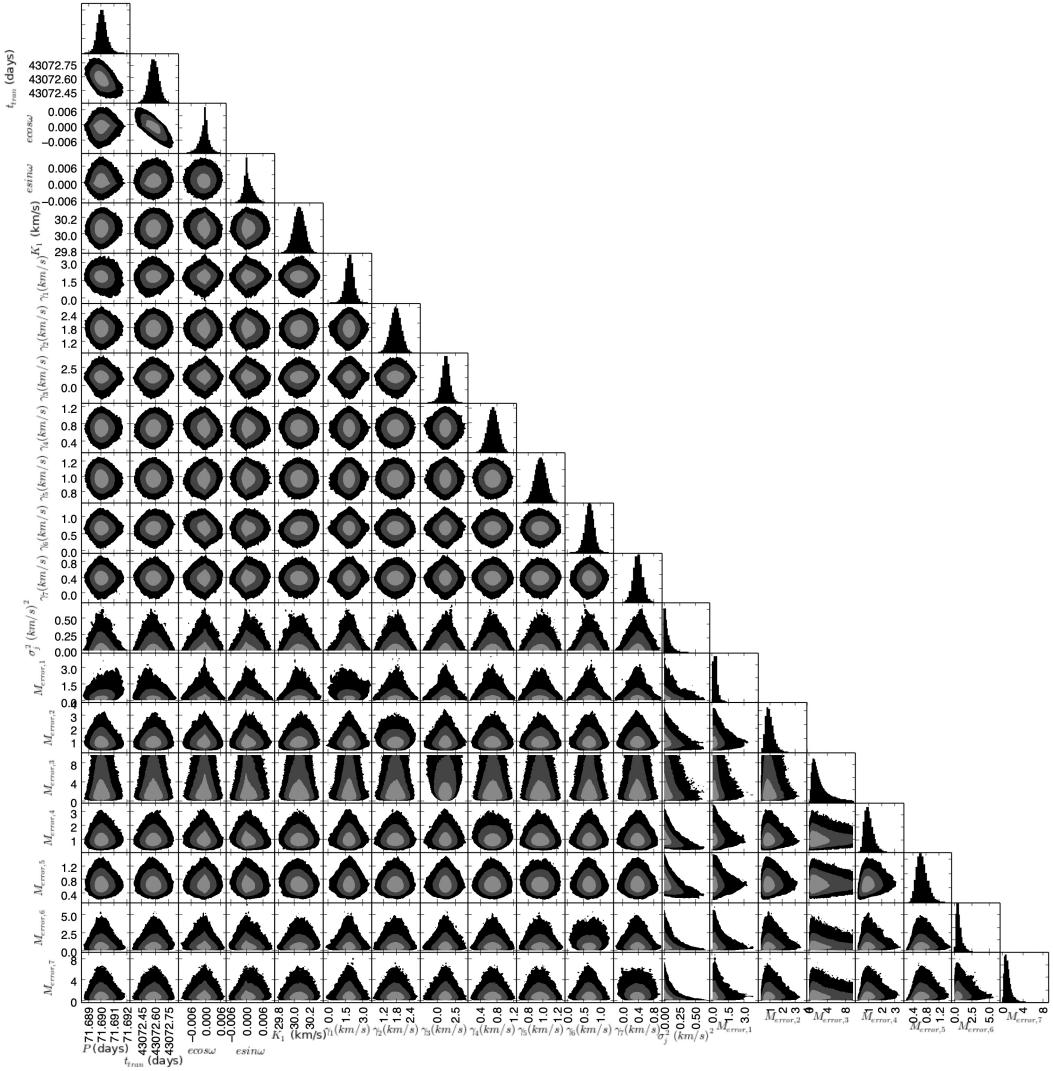


Figure 3: Contour plots showing the 1σ , 2σ , and 3σ constraints on pairs of parameters for the MCMC model.

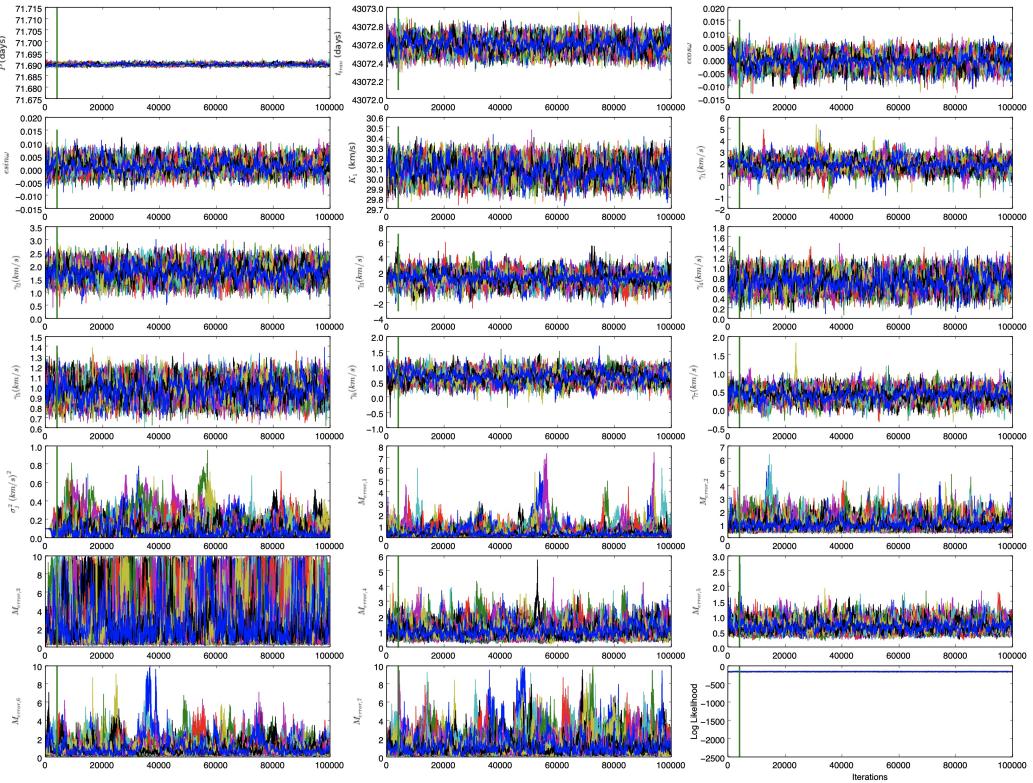


Figure 4: MCMC chains for all 50 walkers. Green line is burnout: 4000 steps.