

SEDmc

Star Summary Report

TIC102840239

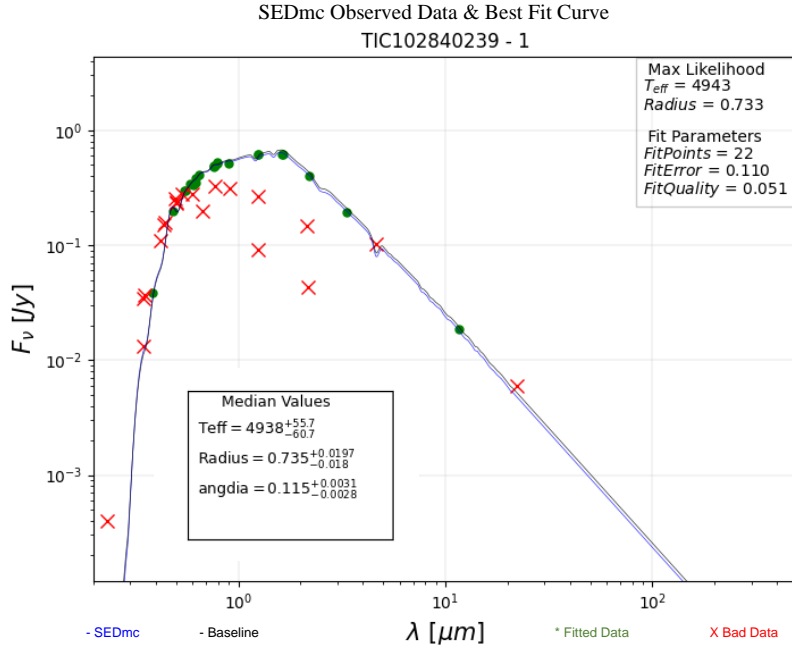
11/02/2024

Astrometry Data: ID = TIC102840239; RA,DEC = (155.8719377, -43.8349248); Best Parallax (Simbad) = 16.82 (+/-0.0128)

Stellar Parameters: Baseline Data Source = NASA

Data Type	Teff [K]	Rstar [Rsun]	Angular Diameter [arcsec]
Baseline Values {SEDmc residuals}	4869 (+/-77.0) {1.4%}	0.77 (+/-0.01) {-4.5%}	0.1197 (+/-0.0016) {-3.9%}
SEDmc Results {fractional error}	4938 (+55, -60) {1.1%}	0.735 (+0.0197, -0.018) {2.7%}	0.115 (+0.0031, -0.0028) {2.7%}

Sampling Parameters: Observed Data = New; Model = nextgen; # of Walkers = 50; # of Iterations = 5000; Burn In = 1000
Min Wavelength = 0.387; Max Wavelength = 11.6; # of Fit Points = 22; # of Bad Points = 22; Fit Error = 0.11



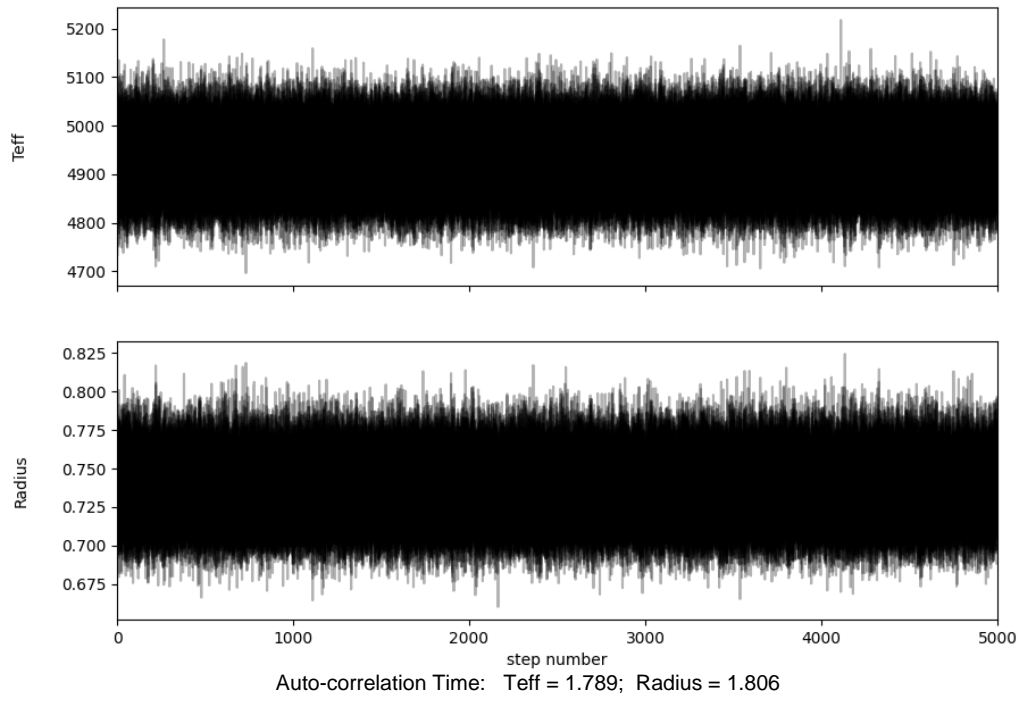
Observed Data

Good Data Points (Used in Sampler)

Bad Data Points (All not shown)

	wl	fl	efl	src	band		wl	fl	efl	src	band
0	0.39	0.04	0.00	I/358/smss SkyMapper/SkyMapper.v		0	0.15	0.00	nan	I/312/ais	GALEX:FUV
1	0.48	0.20	0.02	V353/gsc242	SDSS:g	1	0.23	0.00	0.00	V353/gsc242	GALEX:NUV
2	0.55	0.30	0.03	V360/syntphot	Cousins:V	2	0.35	0.01	0.00	I/358/smss SkyMapper/SkyMapper.u	
3	0.55	0.30	0.00	I/38/tic	Johnson:V	3	0.35	0.03	nan	V360/syntphot	Cousins:U
4	0.58	0.34	0.00	V350/gaiaedr3	GAIA/GAIA3:G	4	0.35	0.04	0.00	V353/gsc242	SDSS:u
5	0.60	0.33	0.00	I/358/smss SkyMapper/SkyMapper.r		5	0.42	0.11	0.00	V337/tgasptyc	HIP:BT
6	0.62	0.35	0.03	V345/gaia2	GAIA/GAIA2:G	6	0.44	0.15	nan	V360/syntphot	Cousins:B
7	0.63	0.38	0.04	V353/gsc242	SDSS:r	7	0.44	0.16	0.00	I/336/apass9	Johnson:B
8	0.65	0.41	0.04	V360/syntphot	Cousins:R	8	0.50	0.26	0.00	I/358/smss SkyMapper/SkyMapper.g	
9	0.76	0.49	0.00	V350/gaiaedr3	GAIA/GAIA3:Grp	9	0.50	0.24	0.00	V350/gaiaedr3	GAIA/GAIA3:Gbp
10	0.76	0.48	0.01	V353/gsc242	SDSS:i	10	0.50	0.23	0.00	V345/gaia2	GAIA/GAIA2:Gbp
11	0.77	0.49	0.05	V345/gaia2	GAIA/GAIA2:Grp	11	0.53	0.28	0.01	V337/tgasptyc	HIP:VT
12	0.79	0.52	0.05	V360/syntphot	Cousins:I	12	0.60	0.28	nan	MNRAS/471/770/table1	Haru/Suprime:IA98
13	0.79	0.51	0.01	I/279/rave_dr5	DENIS:I	13	0.67	0.20	0.00	V353/gsc242	Gaia:G
14	0.90	0.51	0.01	V353/gsc242	SDSS:z	14	0.77	0.33	0.00	I/358/smss SkyMapper/SkyMapper.i	
15	1.24	0.62	0.03	I/279/rave_dr5	DENIS:j	15	0.91	0.31	0.01	I/358/smss SkyMapper/SkyMapper.z	
16	1.25	0.62	0.01	PASP/120/1128/catalog	Johnson:J	16	1.24	0.09	0.00	V353/gsc242	2MASS:J
17	1.63	0.62	0.02	I/246/out	Johnson:H	17	1.25	0.26	0.00	I/359/vhs_dr4	VISTA:J
18	1.65	0.62	0.01	JApJ/867/105/refcat2	2MASS:H	18	2.14	0.15	0.00	I/359/vhs_dr4	VISTA:Ks
19	2.19	0.40	0.01	I/246/out	Johnson:K	19	2.17	0.04	0.00	V353/gsc242	2MASS:Ks
20	3.35	0.19	0.00	I/365/catwise	WISE:W1	20	4.60	0.10	0.00	I/363/unwise	WISE:W2
21	11.57	0.02	0.00	I/311/wise	WISE:W3	21	22.11	0.01	0.00	I/311/wise	WISE:W4
22	22.11	0.01	0.00	I/311/wise	WISE:W4						

SEDmc Sampler Behavior - Markov Chain Plot



SEDmc Posterior Spread - Corner Plot

