

# SEDmc

## Star Summary Report

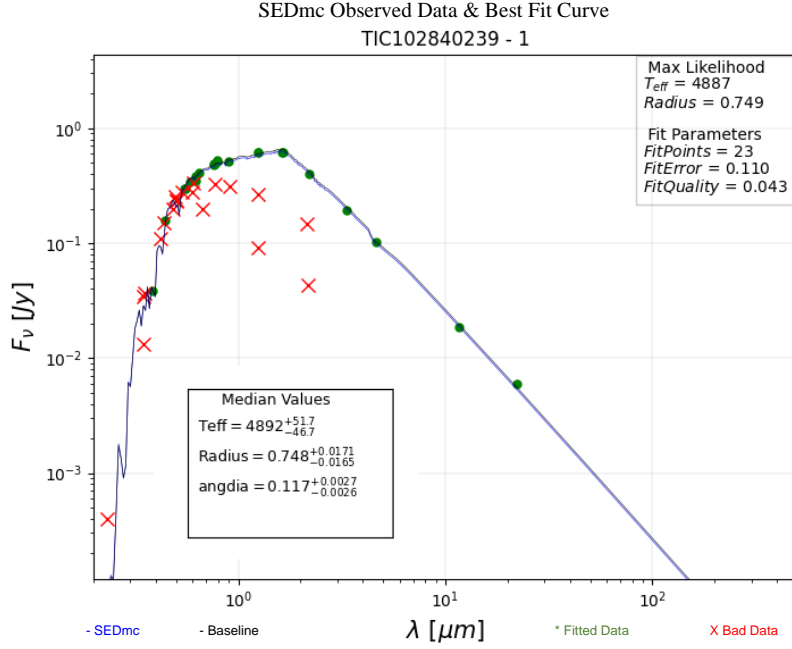
**TIC102840239**  
11/02/2024

**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) {0.5%}	0.77 (+/-0.01) {-2.9%}	0.1197 (+/-0.0016) {-2.3%}
SEDmc Results {fractional error}	4891 (+51, -46) {1.0%}	0.748 (+0.0171, -0.0165) {2.3%}	0.117 (+0.0027, -0.0026) {2.3%}

**Sampling Parameters:** Observed Data = New; Model = ck04; # of Walkers = 50; # of Iterations = 5000; Burn In = 1000  
Min Wavelength = 0.387; Max Wavelength = 22.1; # of Fit Points = 23; # of Bad Points = 21; Fit Error = 0.11



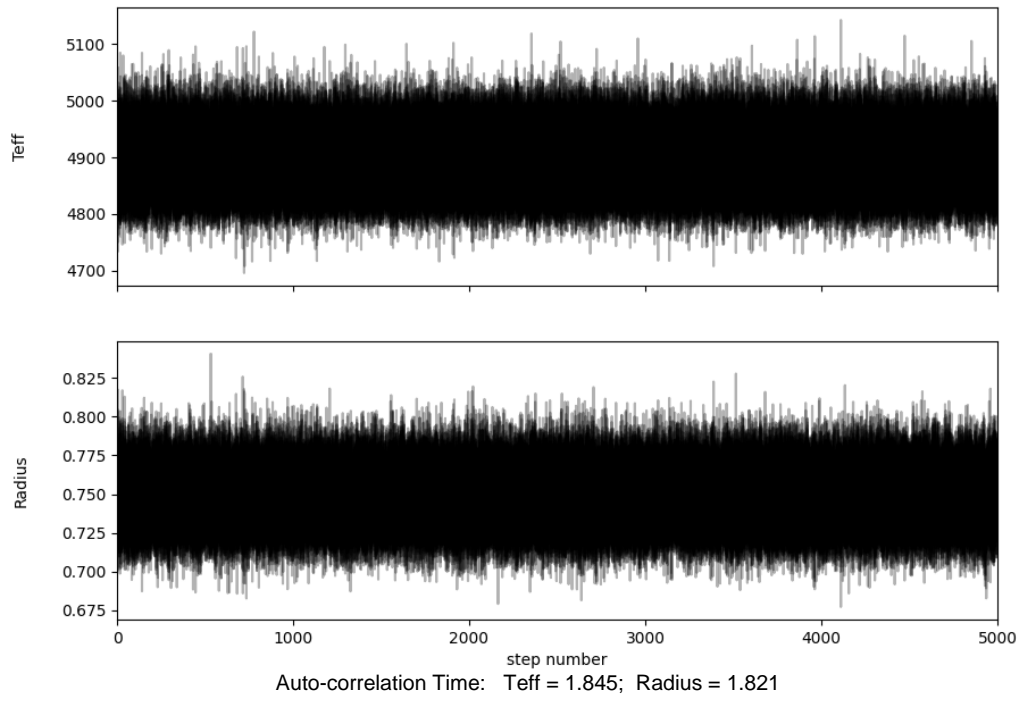
## Observed Data

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	0.44	0.16	0.00	I/336/apass9	Johnson:B	1	0.23	0.00	0.00	I/353/gsc242	GALEX:NUV
2	0.55	0.30	0.03	I/360/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	I/360/syntphot	Cousins:U
4	0.58	0.34	0.00	I/350/gaiaedr3	GAIA/GAIA3:G	4	0.35	0.04	0.00	I/353/gsc242	SDSS:u
5	0.62	0.35	0.03	I/345/gaia2	GAIA/GAIA2:G	5	0.42	0.11	0.00	I/337/tgasptyc	HIP:BT
6	0.63	0.38	0.04	I/353/gsc242	SDSS:r	6	0.44	0.15	nan	I/360/syntphot	Cousins:B
7	0.65	0.41	0.04	I/360/syntphot	Cousins:R	7	0.48	0.20	0.02	I/353/gsc242	SDSS:g
8	0.76	0.49	0.00	I/350/gaiaedr3	GAIA/GAIA3:Grp	8	0.50	0.26	0.00	I/358/smss	SkyMapper/SkyMapper.g
9	0.76	0.48	0.01	I/353/gsc242	SDSS:i	9	0.50	0.24	0.00	I/350/gaiaedr3	GAIA/GAIA3:Gbp
10	0.77	0.49	0.05	I/345/gaia2	GAIA/GAIA2:Grp	10	0.50	0.23	0.00	I/345/gaia2	GAIA/GAIA2:Gbp
11	0.79	0.52	0.05	I/360/syntphot	Cousins:I	11	0.53	0.28	0.01	I/337/tgasptyc	HIP:VT
12	0.79	0.51	0.01	I/279/rave_dr5	DENIS:I	12	0.60	0.28	nan	MNRAS/471/770/table5	Haru/Suprime:IA98
13	0.90	0.51	0.01	I/353/gsc242	SDSS:z	13	0.60	0.33	0.00	I/358/smss	SkyMapper/SkyMapper.r
14	1.24	0.62	0.03	I/279/rave_dr5	DENIS:J	14	0.67	0.20	0.00	I/353/gsc242	Gaia:G
15	1.25	0.62	0.01	PASP/120/1128/catalog	Johnson:J	15	0.77	0.33	0.00	I/358/smss	SkyMapper/SkyMapper.i
16	1.63	0.62	0.02	I/246/out	Johnson:H	16	0.91	0.31	0.01	I/358/smss	SkyMapper/SkyMapper.z
17	1.65	0.62	0.01	JApJ/867/105/refcat2	2MASS:H	17	1.24	0.09	0.00	I/353/gsc242	2MASS:J
18	2.19	0.40	0.01	I/246/out	Johnson:K	18	1.25	0.26	0.00	I/359/vhs_dr4	VISTA:J
19	3.35	0.19	0.00	I/365/catwise	WISE:W1	19	2.14	0.15	0.00	I/359/vhs_dr4	VISTA:Ks
20	4.60	0.10	0.01	I/363/unwise	WISE:W2	20	2.17	0.04	0.00	I/353/gsc242	2MASS:Ks
21	11.57	0.02	0.00	I/311/wise	WISE:W3						
22	22.11	0.01	0.00	I/311/wise	WISE:W4						

### SEDmc Sampler Behavior - Markov Chain Plot



### SEDmc Posterior Spread - Corner Plot

