

SEDmc

Star Summary Report

TIC101011575

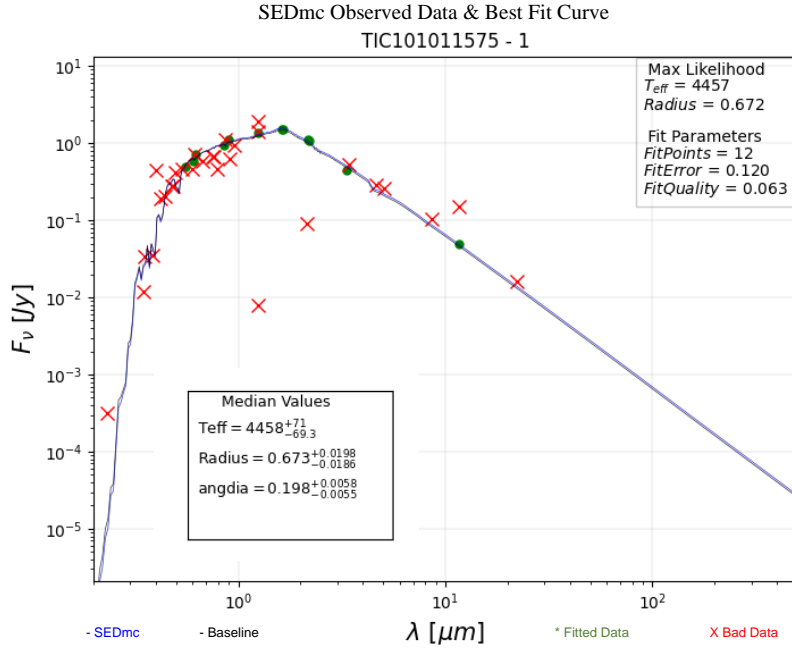
11/02/2024

Astrometry Data: ID = TIC101011575; RA,DEC = (129.6883026, -13.2565267); Best Parallax (Simbad) = 31.66 (+/-0.0152)

Stellar Parameters: Baseline Data Source = NASA

Data Type	Teff [K]	Rstar [Rsun]	Angular Diameter [arcsec]
Baseline Values {SEDmc residuals}	4511 (+/-110.0) {-1.2%}	0.65 (+/-0.02) {3.5%}	0.1913 (+/-0.0059) {3.5%}
SEDmc Results {fractional error}	4457 (+70, -69) {1.6%}	0.673 (+0.0198, -0.0186) {2.9%}	0.198 (+0.0058, -0.0055) {2.9%}

Sampling Parameters: Observed Data = New; Model = ck04; # of Walkers = 50; # of Iterations = 5000; Burn In = 1000
Min Wavelength = 0.554; Max Wavelength = 11.6; # of Fit Points = 12; # of Bad Points = 31; Fit Error = 0.12



Observed Data

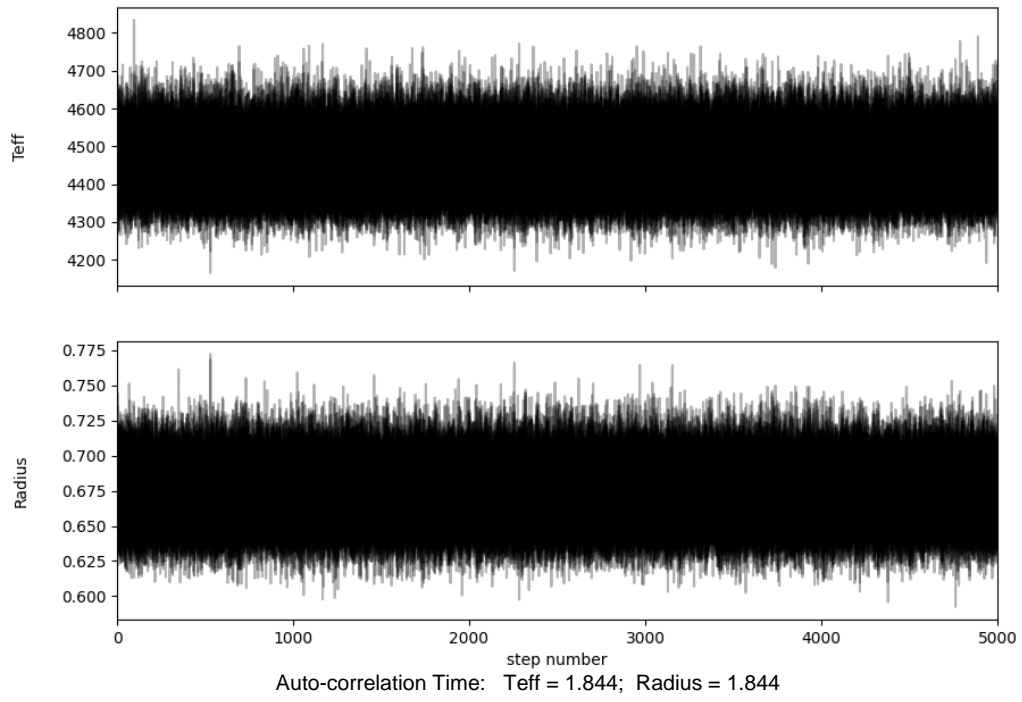
Good Data Points (Used in Sampler)

	wl	fl	efl	src	band
0	0.55	0.50	0.01	JAJ/154/259/table2	Johnson:V
1	0.60	0.59	0.00	I/358/smss SkyMapper/SkyMapper:r	
2	0.63	0.71	0.06	V353/gsc242	SDSS:r
3	0.86	0.93	0.09	MNRAS/471/770/table2	Haru/Suprime:IA856
4	0.90	1.10	0.03	V353/gsc242	SDSS:z
5	1.24	1.37	0.03	V280B/ascc	2MASS:J
6	1.63	1.51	0.07	I/246/out	Johnson:H
7	1.65	1.53	0.07	V280B/ascc	2MASS:H
8	2.17	1.12	0.02	V280B/ascc	2MASS:Ks
9	2.19	1.09	0.02	I/246/out	Johnson:K
10	3.35	0.44	0.04	I/363/unwise	WISE:W1
11	11.57	0.05	0.00	I/311/wise	WISE:W3

Bad Data Points (All not shown)

	wl	fl	efl	src	band
0	0.15	0.00	0.00	I/366/catv2021	GALEX:FUV
1	0.23	0.00	0.00	I/366/catv2021	GALEX:NUV
2	0.35	0.01	0.00	I/358/smss SkyMapper/SkyMapper:u	
3	0.35	0.03	0.00	V145/sky2kv5	Johnson:U
4	0.39	0.04	0.00	I/358/smss SkyMapper/SkyMapper:v	
5	0.40	0.45	0.00	V239/hip_main	HIP:Hp
6	0.42	0.19	0.01	I/346/jscdc_v2	HIP:BT
7	0.44	0.21	0.00	V145/sky2kv5	Johnson:B
8	0.48	0.28	0.00	I/349/ps1	PAN-STARRS/PS1:g
9	0.48	0.28	0.00	V353/gsc242	SDSS:g
10	0.50	0.41	0.01	I/358/smss SkyMapper/SkyMapper:g	
11	0.53	0.46	0.01	PASP/120/1128/catalog	HIP:VT
12	0.60	0.46	nan	MNRAS/471/770/table2	Haru/Suprime:IA856
13	0.61	0.71	0.06	I/349/ps1	PAN-STARRS/PS1:r
14	0.67	0.59	0.00	M/38/tic	Gaia:G
15	0.75	0.66	0.01	I/349/ps1	PAN-STARRS/PS1:i
16	0.76	0.66	0.01	V353/gsc242	SDSS:i
17	0.79	0.46	0.03	II/279/rave_dr5	DENIS:l
18	0.87	1.10	0.03	I/349/ps1	PAN-STARRS/PS1:z
19	0.91	0.62	0.00	I/358/smss SkyMapper/SkyMapper:z	
20	0.96	0.94	0.07	I/349/ps1	PAN-STARRS/PS1:y
21	1.24	1.88	0.12	II/279/rave_dr5	DENIS:j
22	1.25	0.01	0.00	I/359/vhs_dr4	VISTA:J
23	1.25	1.40	0.03	I/246/out	Johnson:J
24	2.14	0.09	0.00	I/359/vhs_dr4	VISTA:Ks
25	3.40	0.52	0.02	I/346/jscdc_v2	Johnson:L
26	4.60	0.28	0.00	I/363/unwise	WISE:W2
27	5.03	0.26	0.00	I/346/jscdc_v2	Johnson:M
28	8.62	0.10	0.01	I/297/irc	AKARI:S9W
29	11.60	0.15	nan	V/98/msx	RAS:12

SEDmc Sampler Behavior - Markov Chain Plot



SEDmc Posterior Spread - Corner Plot

