

SEDmc

Star Summary Report

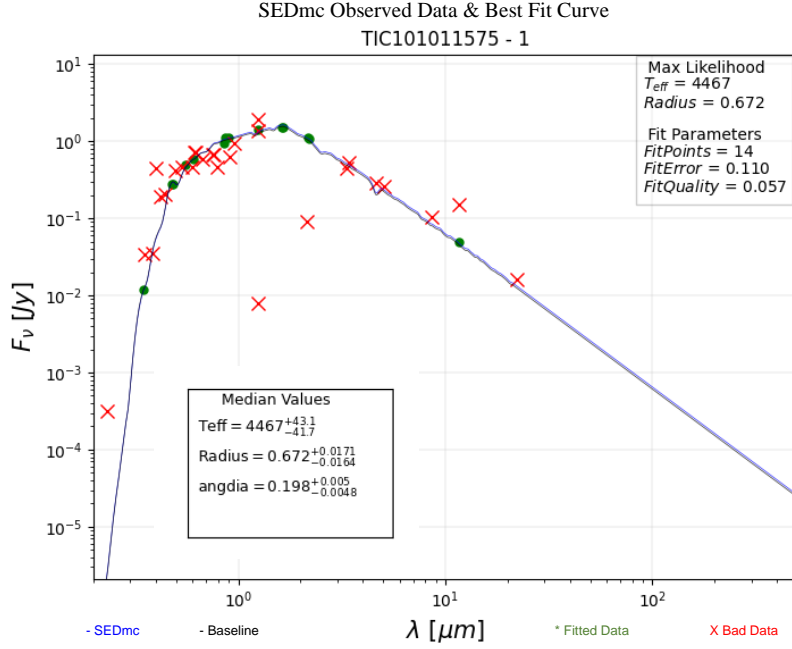
TIC101011575
11/02/2024

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) {-1.0%}	0.65 (+/-0.02) {3.4%}	0.1913 (+/-0.0059) {3.5%}
SEDmc Results {fractional error}	4466 (+43, -41) {1.0%}	0.672 (+0.0171, -0.0164) {2.5%}	0.198 (+0.005, -0.0048) {2.5%}

Sampling Parameters: Observed Data = New; Model = nextgen; # of Walkers = 50; # of Iterations = 5000; Burn In = 1000
Min Wavelength = 0.35; Max Wavelength = 11.6; # of Fit Points = 14; # of Bad Points = 29; Fit Error = 0.11



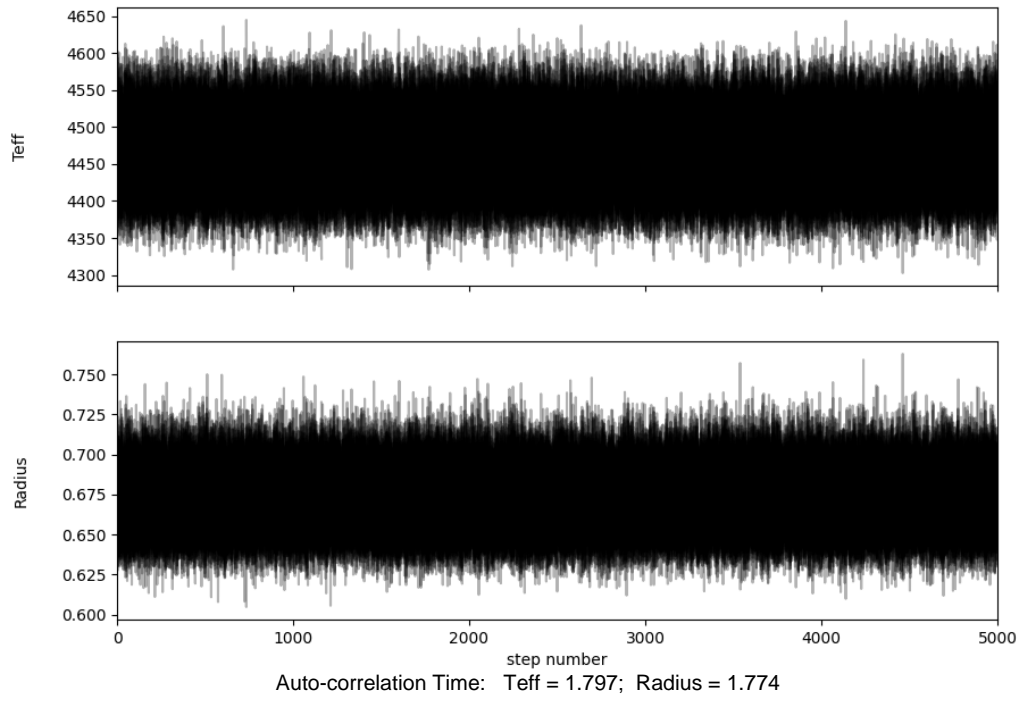
Observed Data

Good Data Points (Used in Sampler)

Bad Data Points (All not shown)

	wl	fl	efl	src	band		wl	fl	efl	src	band
0	0.35	0.01	0.00	I/358/smss	SkyMapper/SkyMapper:u	0	0.15	0.00	0.00	I/366/catv2021	GALEX:FUV
1	0.48	0.28	0.00	I/349/ps1	PAN-STARRS/PS1:err:r	1	0.23	0.00	0.00	I/366/catv2021	GALEX:NUV
2	0.48	0.28	0.00	V353/gsc242	SDSS:g	2	0.35	0.03	0.00	V145/sky2kv5	Johnson:U
3	0.55	0.50	0.01	JAJ/154/259/table2	Johnson:V	3	0.39	0.04	0.00	I/358/smss	SkyMapper/SkyMapper:v
4	0.60	0.59	0.00	I/358/smss	SkyMapper/SkyMapper:r	4	0.40	0.45	0.00	V239/hip_main	HIP:Hp
5	0.86	0.93	0.09	MNRAS/471/770/table2	Haru/Suprime:IA856	5	0.42	0.19	0.01	I/346/jcdc_v2	HIP:BT
6	0.87	1.10	0.03	I/349/ps1	PAN-STARRS/PS1:z	6	0.44	0.21	0.00	V145/sky2kv5	Johnson:B
7	0.90	1.10	0.03	V353/gsc242	SDSS:z	7	0.50	0.41	0.01	I/358/smss	SkyMapper/SkyMapper:g
8	1.25	1.40	0.03	I/246/out	Johnson:J	8	0.53	0.46	0.01	VPASP/120/1128/catalog	HIP:VT
9	1.63	1.51	0.07	I/246/out	Johnson:H	9	0.60	0.46	nan	MNRAS/471/770/table2	Haru/Suprime:IA98
10	1.65	1.53	0.07	V280B/ascc	2MASS:H	10	0.61	0.71	0.06	I/349/ps1	PAN-STARRS/PS1:err:g
11	2.17	1.12	0.02	V280B/ascc	2MASS:Ks	11	0.63	0.71	0.06	V353/gsc242	SDSS:r
12	2.19	1.09	0.02	I/246/out	Johnson:K	12	0.67	0.59	0.00	M/38/tic	Gaia:G
13	11.57	0.05	0.00	I/311/wise	WISE:W3	13	0.75	0.66	0.01	I/349/ps1	PAN-STARRS/PS1:err:v
						14	0.76	0.66	0.01	V353/gsc242	SDSS:i
						15	0.79	0.46	0.03	I/279/rave_dr5	DENIS:I
						16	0.91	0.62	0.00	I/358/smss	SkyMapper/SkyMapper:z
						17	0.96	0.94	0.07	I/349/ps1	PAN-STARRS/PS1:y
						18	1.24	1.37	0.03	V280B/ascc	2MASS:J
						19	1.24	1.88	0.12	I/279/rave_dr5	DENIS:J
						20	1.25	0.01	0.00	I/359/vhs_dr4	VISTA:J
						21	2.14	0.09	0.00	I/359/vhs_dr4	VISTA:Ks
						22	3.35	0.44	0.00	I/363/unwise	WISE:W1
						23	3.40	0.52	0.02	I/346/jcdc_v2	Johnson:L
						24	4.60	0.28	0.00	I/363/unwise	WISE:W2
						25	5.03	0.26	0.00	I/346/jcdc_v2	Johnson:M
						26	8.62	0.10	0.01	I/297/irc	AKARI:S9W
						27	11.60	0.15	nan	V98/msx	RAS:12
						28	22.11	0.02	0.00	I/311/wise	WISE:W4
						29	11.60	0.15	nan	V98/msx	RAS:12

SEDmc Sampler Behavior - Markov Chain Plot



SEDmc Posterior Spread - Corner Plot

