

SEDmc

Star Summary Report

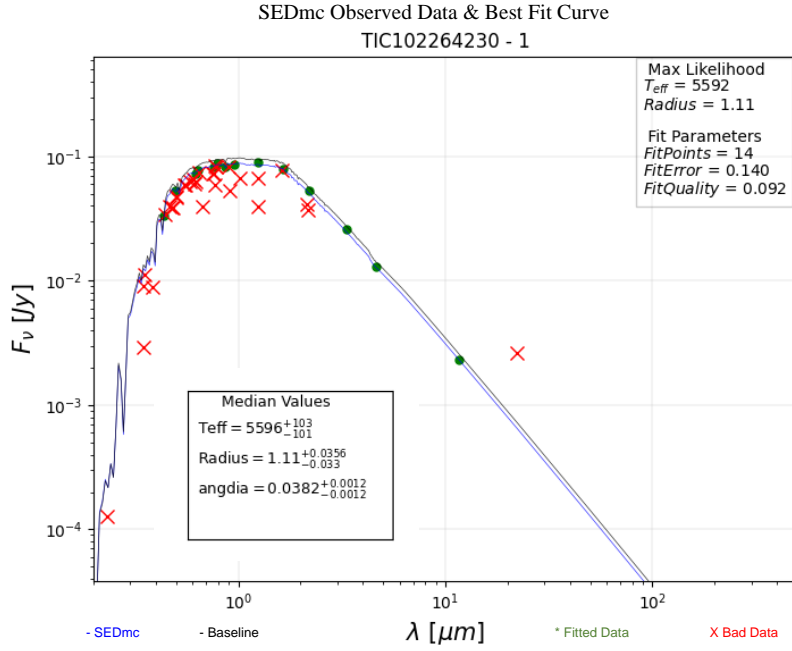
TIC102264230
11/02/2024

Astrometry Data: ID = TIC102264230; RA,DEC = (331.203092, -12.019067); Best Parallax (Simbad) = 3.701 (+/-0.0201)

Stellar Parameters: Baseline Data Source = NASA

Data Type	Teff [K]	Rstar [Rsun]	Angular Diameter [arcsec]
Baseline Values {SEDmc residuals}	5565 (+/-60.0) {0.5%}	1.16 (+/-0.01) {-4.3%}	0.0405 (+/-0.0008) {-5.7%}
SEDmc Results {fractional error}	5595 (+102, -100) {1.8%}	1.11 (+0.0356, -0.033) {3.2%}	0.0382 (+0.0012, -0.0012) {3.1%}

Sampling Parameters: Observed Data = New; Model = ck04; # of Walkers = 50; # of Iterations = 5000; Burn In = 1000
Min Wavelength = 0.436; Max Wavelength = 11.6; # of Fit Points = 14; # of Bad Points = 34; Fit Error = 0.14



Observed Data

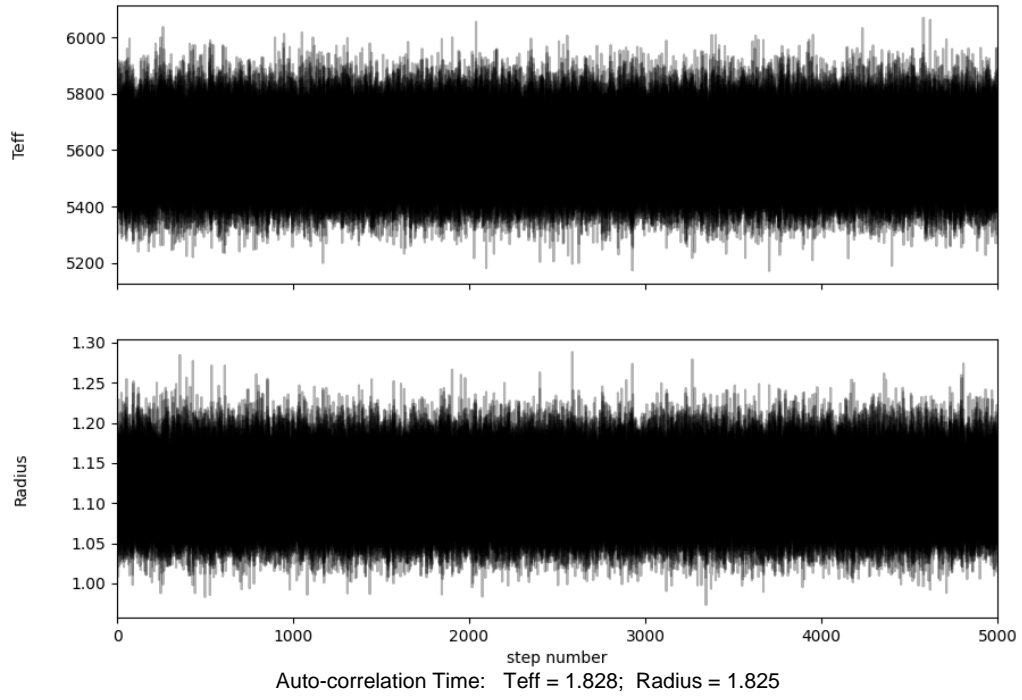
Good Data Points (Used in Sampler)

	wl	fl	efl	src	band
0	0.44	0.03	0.00	I360/syntphot	Cousins:B
1	0.50	0.05	0.00	I/358/smss SkyMapper/SkyMapper:g	
2	0.63	0.07	0.00	JAJ/164/26/table1	SDSS:r
3	0.64	0.08	0.03	I305/out	POSS-II:F
4	0.76	0.08	0.00	I350/gaiaedr3	GAIA/GAIA3:Grp
5	0.79	0.09	0.01	I360/syntphot	Cousins:I
6	0.87	0.08	0.01	I/349/ps1	PAN-STARRS/PS1:z
7	0.96	0.09	0.01	I/349/ps1	PAN-STARRS/PS1:y
8	1.25	0.09	0.00	I/246/out	Johnson:J
9	1.65	0.08	0.00	I322A/out	2MASS:H
10	2.19	0.05	0.00	I/246/out	Johnson:K
11	3.35	0.03	0.00	I/363/unwise	WISE:W1
12	4.60	0.01	0.00	I/363/unwise	WISE:W2
13	11.57	0.00	0.00	I/311/wise	WISE:W3

Bad Data Points (All not shown)

	wl	fl	efl	src	band
0	0.15	0.00	nan	I/312/ais	GALEX:FUV
1	0.23	0.00	0.00	I353/gsc242	GALEX:NUV
2	0.35	0.00	0.00	I/358/smss SkyMapper/SkyMapper:u	
3	0.35	0.01	nan	I360/syntphot	Cousins:U
4	0.35	0.01	0.00	I353/gsc242	SDSS:u
5	0.39	0.01	0.00	I/358/smss SkyMapper/SkyMapper:v	
6	0.44	0.03	0.00	I/336/apass9	Johnson:B
7	0.47	0.04	0.01	I305/out	POSS-II:J
8	0.48	0.04	nan	I/349/ps1	PAN-STARRS/PS1:g
9	0.48	0.04	0.00	I353/gsc242	SDSS:g
10	0.50	0.05	0.00	I350/gaiaedr3	GAIA/GAIA3:Gbp
11	0.50	0.05	0.00	I345/gaia2	GAIA/GAIA2:Gbp
12	0.55	0.06	nan	I360/syntphot	Cousins:V
13	0.55	0.06	0.00	I/34/epic	Johnson:V
14	0.58	0.06	0.00	I350/gaiaedr3	GAIA/GAIA3:G
15	0.60	0.07	0.00	I/358/smss SkyMapper/SkyMapper:r	
16	0.61	0.06	nan	I/349/ps1	PAN-STARRS/PS1:i
17	0.62	0.06	0.00	I345/gaia2	GAIA/GAIA2:G
18	0.65	0.07	nan	I360/syntphot	Cousins:R
19	0.67	0.04	0.00	I353/gsc242	Gaia:G
20	0.75	0.07	nan	I/349/ps1	PAN-STARRS/PS1:h
21	0.76	0.07	0.00	I353/gsc242	SDSS:i
22	0.77	0.06	0.00	I/358/smss SkyMapper/SkyMapper:i	
23	0.77	0.08	0.00	I345/gaia2	GAIA/GAIA2:Grp
24	0.78	0.08	0.03	I305/out	POSS-II:i
25	0.90	0.08	0.00	I353/gsc242	SDSS:z
26	0.91	0.05	0.00	I/358/smss SkyMapper/SkyMapper:z	
27	1.02	0.07	0.00	I353/gsc242	VISTA:Y
28	1.24	0.04	0.00	I353/gsc242	2MASS:J
29	1.25	0.07	0.00	I/359/vhs_dr4	VISTA:J

SEDmc Sampler Behavior - Markov Chain Plot



SEDmc Posterior Spread - Corner Plot

