

SEDmc

Star Summary Report

TIC103633434

11/02/2024

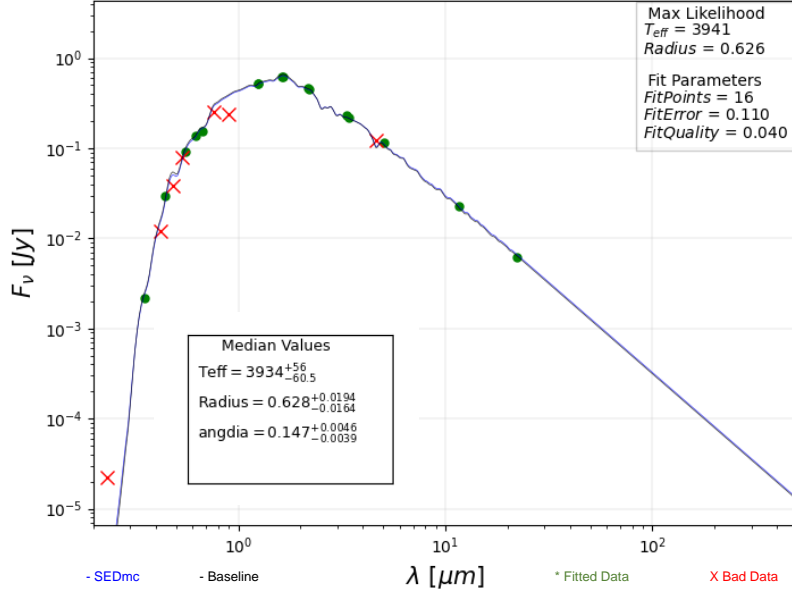
Astrometry Data: ID = TIC103633434; RA,DEC = (152.2182549, 69.2766204); Best Parallax (Simbad) = 25.24 (+/-0.0126)

Stellar Parameters: Baseline Data Source = NASA

Data Type	Teff [K]	Rstar [Rsun]	Angular Diameter [arcsec]
Baseline Values {SEDmc residuals}	3997 (+/-51.0) {-1.6%}	0.62 (+/-0.02) {1.3%}	0.1453 (+/-0.0047) {1.2%}
SEDmc Results {fractional error}	3934 (+56, -60) {1.4%}	0.628 (+0.0194, -0.0164) {3.1%}	0.147 (+0.0046, -0.0039) {3.1%}

Sampling Parameters: Observed Data = New; Model = nextgen; # of Walkers = 50; # of Iterations = 5000; Burn In = 1000
Min Wavelength = 0.352; Max Wavelength = 22.1; # of Fit Points = 16; # of Bad Points = 8; Fit Error = 0.11

SEDmc Observed Data & Best Fit Curve
TIC103633434 - 1



Observed Data

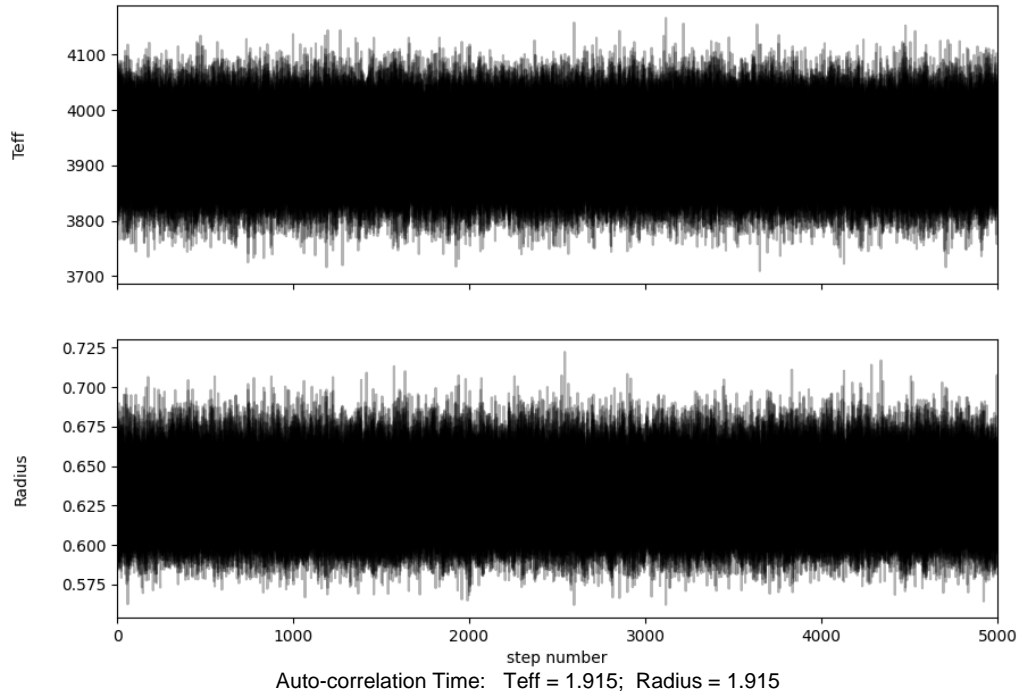
Good Data Points (Used in Sampler)

Bad Data Points (All not shown)

	wl	f1	efl	src	band
0	0.35	0.00	0.00	V353/gsc242	SDSS:u
1	0.44	0.03	0.00	MNRAS/443/2561/stars	johnson:B
2	0.55	0.09	0.00	N/38/tic	johnson:V
3	0.63	0.14	0.01	V353/gsc242	SDSS:r
4	0.67	0.16	0.02	V339/hsoy	Gaia:G
5	1.24	0.52	0.01	V317/sample	2MASS:J
6	1.25	0.53	0.01	I/246/out	johnson:J
7	1.63	0.61	0.01	I/246/out	johnson:H
8	1.65	0.62	0.01	V317/sample	2MASS:H
9	2.17	0.47	0.01	V322A/out	2MASS:Ks
10	2.19	0.45	0.00	I/246/out	johnson:K
11	3.35	0.23	0.01	N/38/tic	WSE:W1
12	3.40	0.22	0.01	I/346/jstdc_v2	johnson:L
13	5.03	0.12	0.00	I/346/jstdc_v2	johnson:M
14	11.57	0.02	0.00	N/38/tic	WSE:W3
15	22.11	0.01	0.00	N/38/tic	WSE:W4

	wl	f1	efl	src	band
00	0.15	0.00	nan	JAJ/142/138/Mdwarfs	GALEX:FUV
11	0.23	0.00	nan	JAJ/145/102/Mdwarfs	GALEX:NUV
22	0.42	0.01	0.00	W136/tycall	HIP:BT
33	0.48	0.04	0.00	V353/gsc242	SDSS:g
44	0.53	0.08	0.01	W136/tycall	HIP:VT
55	0.76	0.26	0.00	V353/gsc242	SDSS:i
66	0.90	0.24	0.00	V353/gsc242	SDSS:z
77	4.60	0.12	0.00	N/38/tic	WSE:W2
8	0.67	0.16	0.00	V339/hsoy	Gaia:G
9	0.90	0.24	0.00	V353/gsc242	SDSS:z
10	5.03	0.12	0.00	I/346/jstdc_v2	johnson:M

SEDmc Sampler Behavior - Markov Chain Plot



SEDmc Posterior Spread - Corner Plot

