SEDmc

Star Summary Report

TIC102264230

11/02/2024

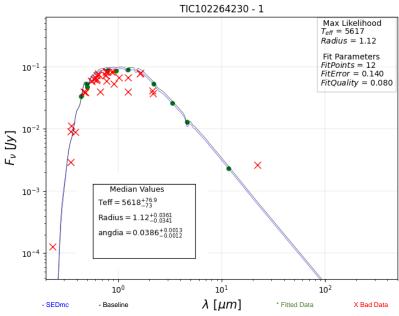
Astrometry Data: ID = TIC102264230; RA,DEC = (331.203092, -12.019067); Best Parallax (Simbad) = 3.701 (+/-0.0201)

Stellar Parameters: Baseline Data Source = NASA

Data Type	Teff [K]	Rstar [Rsun]	Angular Diameter [arcsec]		
Baseline Values {SEDmc residuals}	5565 (+/-60.0) {0.9%}	1.16 (+/-0.01) {-3.4%}	0.0405 (+/-0.0008) {-4.7%}		
SEDmc Results {fractional error}	5617 (+76, -72) {1.4%}	1.12 (+0.0361, -0.0341) {3.2%}	$0.0386 (+0.0013, -0.0012) \{3.4\%\}$		

Sampling Parameters: Observed Data = New; Model = nextgen; # of Walkers = 50; # of Iterations = 5000; Burn In = 1000 Min Wavelength = 0.436; Max Wavelength = 11.6; # of Fit Points = 12; # of Bad Points = 36; Fit Error = 0.14

SEDmc Observed Data & Best Fit Curve



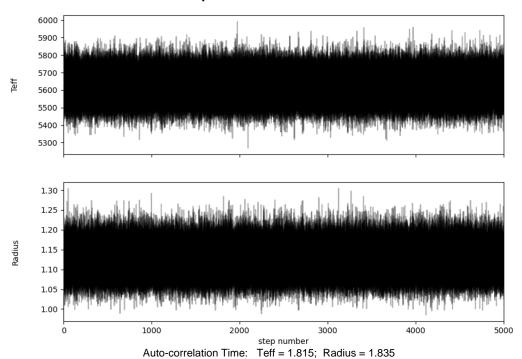
Observed Data

Good Data Points (Used in Sampler)

Bad Data Points (All not shown)

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ſ	wl	fl	efl	arc	band	1	wl	fl	efl	src	band
1	0.44	0.03	0.00	V360/syntphot	Cousins:B	0	0.15	0.00	nan	I/312/ais	GALEX:FUV
t	0.44	0.03	0.00	I/336/apass9	Johnson:B	er:g 1	0.23	0.00	0.00	V353/gsc242	GALEX:NUV
t	0.50	0.05	0.00	I/358/smss Skyl	Mapper/SkyMapp	er:g 2	0.35	0.00	0.00	I/358/smss Sky	Mapper/SkyMapp
ľ	0.50	0.05	0.00	V350/gaiaedr3	GAIA/GAIA3:Gbp	3	0.35	0.01	nan	V360/syntphot	Cousins:U
١	0.50	0.05	0.00	V345/gaia2	GAIA/GAIA2:Gbp	4	0.35	0.01	0.00	V353/gsc242	SDSS:u
	0.79	0.09	0.01	V360/syntphot	Cousins:I	5	0.39	0.01	0.00	I/358/smss Sky	Mapper/SkyMapp
	0.96	0.09	0.01	I/349/ps1	AN-STARRS/PS1:	6	0.47	0.04	0.01	V305/out	POSS-II:J
	1.25	0.09	0.00	I/246/out	Johnson:J	7	0.48	0.04	nan	I/349/ps1	AN-STARRS/PS1
	2.19	0.05	0.00	I/246/out	Johnson:K	8	0.48	0.04	0.00	V353/gsc242	SDSS:g
	3.35	0.03	0.00	I/363/unwise	WISE:W1	9	0.55	0.06	nan	V360/syntphot	Cousins:V
	4.60	0.01	0.00	I/363/unwise	WISE:W2	10	0.55	0.06	0.00	N/34/epic	Johnson:V
	11.57	0.00	0.00	I/311/wise	WISE:W3	11	0.58	0.06	0.00	V350/gaiaedr3	GAIA/GAIA3:G
	4.60	0.01	0.00	I/363/unwise	WISE:W2	12	0.60	0.07	0.00	I/358/smss Sky	Mapper/SkyMap
	11.57	0.00	0.00	I/311/wise	WISE:W3	13	0.61	0.06	nan	I/349/ps1	AN-STARRS/PS1
					•	14	0.62	0.06	0.00	V345/gaia2	GAIA/GAIA2:G
						15	0.63	0.07	0.00	J/AJ/164/26/table1	SDSS:r
						16	0.64	0.08	0.03	V305/out	POSS-II:F
						17	0.65	0.07	nan	V360/syntphot	Cousins:R
						18	0.67	0.04	0.00	V353/gsc242	Gaia:G
						19	0.75	0.07	nan	I/349/ps1	AN-STARRS/PSI
						20	0.76	0.08	0.00	V350/gaiaedr3	GAIA/GAIA3:Grp
						21	0.76	0.07	0.00	V353/gsc242	SDSS:i
						22	0.77	0.06	0.00	I/358/smss Sky	Mapper/SkyMap
						23	0.77	0.08	0.00	V345/gaia2	GAIA/GAIA2:Grp
						24	0.78	0.08	0.03	₹305/out	POSS-II:i
						25	0.87	0.08	nan	I/349/ps1	AN-STARRS/PS1
						26	0.90	0.08	0.00	V353/gsc242	SDSS:z
						27	0.91	0.05	0.00	I/358/smss Sky	Mapper/SkyMap
						28	1.02	0.07	0.00	V353/gsc242	VISTA:Y
						29	1.24	0.04	0.00	V353/gsc242	2MASS:I

SEDmc Sampler Behavior - Markov Chain Plot



SEDmc Posterior Spread - Corner Plot

