



Why is "[The Evolution of Stars](#)" incorrect?

Updated and expanded

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„Stellar evolution starts with the gravitational collapse of a [giant molecular cloud](#).“ https://en.wikipedia.org/wiki/Stellar_evolution#Protostar

„Protostars with masses less than roughly $0.08 M_{\odot}$ (1.6×10^{29} kg) never reach temperatures high enough for [nuclear fusion](#) of hydrogen to begin. These are known as brown dwarfs. The [International Astronomical Union](#) defines brown dwarfs as stars massive enough to [fuse deuterium](#) at some point in their lives (13 [Jupiter masses](#) (M_J), 2.5×10^{28} kg, or $0.0125 M_{\odot}$). https://en.wikipedia.org/wiki/Stellar_evolution#Brown_dwarfs_and_sub-stellar_objects

This quotation from Wikipedia may had been acceptable in the past, because readers were unable to check the real situation in data bases of stars and other objects inside the galaxy and beyond. These days, when there is a sufficient number of explored objects, exoplanets, brown dwarfs and other stars, galaxies and clusters of galaxies, it is not difficult to conclude that the old theories are completely wrong and badly conceived mind constructions.

In the next table I have given some examples of exoplanets that testify beyond any doubt against the old theories. The mass of Sun is 1/1047 of the Sun mass.

It can be seen from the table that the planets
Hottest [Kepler-70b](#) (7 143° K), [PSR J1719-1438 b](#) (5 375° K), [KOI-55 C](#) (6 319° K) are far

	exoplanet	Maas of Jupiter	Temperature K	Semi major axis AU	Parent star spectral typ
1.	Kepler-70b	0.440 Earth	7.662	0.006	O (sdB)
2.	WASP-33b	4,59 Jupiter	~2.900	0.02558	A5
3.	WASP-121b	1.183 J	2.358	0.02544	F6V
4.	WASP-87b	2.18	2.322	0.02946	F5
5.	B Tauri FU	15	2.375	700	M7.25 (M9.25)
6.	WASP-12b	1.39 ± 0.04	2.525	0.02293	G0
7.	HIP 78530 b	24	2.800 ± 200	710	B9V
8.	Kepler-13b	0,485	1.500	0.03423	8.500°K
9.	DH Tauri b	12	2.750	330	M0.5V
10.	PSR J1719-1438 b	1.2	5.375	0.00442	Pulsar
11.	KOI-368.01	2.1	3.060	0.6	F6
12.	KOI-55 C	0,0014	6.807	0.0060	B4
13.	CT Chamaeleontis b	10,5-17	2.500	440,0	K7
14.	HAT-P-7b	1.741	2.730 (+150; -100)	0.0379	F6
15.	OGLE2-TR-L9	4.34	2.154.6	0.0308	F3
16.	WASP-48 b	0.98	2.030	0.03444	5.990°K
17.	UScoCTIO 108 b	14	2.350	670	M7
18.	WASP-103 b	1.49	2.508	0.01985	F8V
19.	Kepler-10 b	0,010475	2.169	0.01684	G
20.	WASP-100b	1.69	2.190	0.0457	F2
21.	WASP-72b	1.01	2.210	0.03655	F7
22.	WASP-18 b	1,165 (10.43)	2.187,5	0.02047	F6
23.	Oph 11 B	21	2.478	243.0	M9
24.	WASP-78 b	1.16	2.006.7	0.0415	F8
25.	KELT-7 b	1.28	2.048	0.04415	6.789°K
26.	WASP-111 b	1.83	2.140	0.03914	F5

beyond the temperatures for the M-type stars.

M typ star	0.08–0.45	≤ 0.7	2,400–3,700	M 76,45%
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From [fast-and-slow-combustion](#).

The rest of the planets from the table, in the matter of temperatures, belong to M-type stars.

The temperature maximum of magma „(Ultramafic lavas such as komatiite) is [1 600°C](#) (Basalt lava flow usually has the temperature of eruption between [1 100](#) and 1 250°C.) (Magma is a complex high-temperature fluid substance.)“.

The planets from the table have the temperatures significantly above the temperature maximums of magma, which, in other words, means that they are either melted liquid (fluidic) objects or stars.

If we follow the idea that the temperature of a planet is related to the small distance from the star that is supposed to be the source of temperature, then there is no explanation for [HIP 78530 b](#) (R/B 7.), which is 710 AU far from its main star, Jupiter Semi-major axis 5,20260 AU, [Edgeworth–Kuiper belt](#) at 30 AU to approximately 50 AU from the Sun (and like R/B 23; R/B 17; R/B 13; R/B 9; R/B 5). The majority of exoplanets from the table is at the distances from 0.02 do 0.05 AU from their main stars, however, to make a conclusion that the influence of a star's proximity is dominant for the temperature of a planet, without realizing they are at the same distance:

Brown dwarf (& planets)	Mass of Jupiter	Temperature °K	Planets orbit AU
Wolf 1061b	$\geq 1.36 M_{\oplus}$	210	0.035509
TRAPPIST-1d	$0.41 \pm 0.27 M_{\oplus}$	288,15	0,021
Gliese 3634 b,	$8,4 (+4,0; -1,5) M_{\oplus}$	565,4	0,0287
Kepler-45b	0.5505	774	0,027
HD 63454 b	0,38	926,7	0,036
HD 40307 b	4 (+4,8; -3,3)	804,5	0.0468
HAT-P-20 b	7.246 (± 0.187)	888.3	0.0361
WASP-10 b	3,06	984.3	0,0371
HATS-6 b	0,319	712,8	0.03623
Gliese 436 b	$22.2 \pm 1.0 M_{\oplus}$	712 ± 36	0.0291
GJ 160.2 b	0.032	100	0,053
Gliese 1214 b	$6.55 \pm 0.98 M_{\oplus}$	393–555	0.01488
Etc.			

could easily be wrong.

If we put into the formula the spectral class of a planet's main star:

Brown dwarf (& plane	Mass of Jupiter	Temperature °K	Planets orbit AU	
WASP-11b/HAT-P-10(b)	0.460 ± 0.028	800	0,0439	K3V
HD 63454 b	0.380	926,7	0,036	K4V
HD 330075 b	0,620	1.023	0,043	G5
HD 219134 (b)	0.0149±0.0006	1.015	0.0388	K3V
HD 102195 (b)	0,450	963	0,049	K0V
HD 40307(b)	0,0120±0,0009	804,5	0,0468	K2,5V
OGLE-TR-111(b)	0,540	940	0,0470	G
WASP-10(b)	3,16	946,8 (1.119 +26; -28)	0,371	K5
HD 215497 (b)	0,020	984,3	0,047	K3V
Gliese 3470 (b)	0,043	604±98	0,031	M1,5
HAT-P-11b	0,081	750	0,053	K4
HIP 14810 b	3,88	690	0,0692	G5V
HAT-P-18b	0,196	841±15	0,0559	K
Kepler-102b	0,0013	792,0	0,055	K3
Kepler-114d	0,022	549	0,052	K5
WASP-69b	0,260	963±18	0,0452	K5

We can add here [PSR J1719-1438 b](#), which rotates around a pulsar (the temperature of which is unmeasurable to our instruments) at the distance of 0.004 AU and has a temperature of 5 348°K, and Hottest [Kepler-70b](#), which rotates around its main star at the distance of 0.0076 AU and has the temperature of 6.807°K. Based on these two planets, it is obvious that the temperature of a main star has no dominant influence over the temperature of a planet.

Conclusion:

"Growth doesn't stop with atoms; on the contrary, joining goes on. Through joining, chemical reactions and combined, gas, dust, sand, the rocks named asteroids and comets, ... Then, when planets grow to the 10% of Sun's mass, they become stars, which can be really gigantic (super-giants). Millions of craters scattered around the objects of our Solar system are the evidence of objects' growth. Constant impacts of asteroids into our atmosphere and soil are the evidence of these processes being uninterrupted today, just the same as it used to be in any earlier period of the past. It is estimated that 4 000 - 100 000 tons of extraterrestrial material falls yearly to Earth." from „[Universe and rotation/Processes in universe](#)“

"It is enough to observe the mass of an object, its relation to other objects, the rotation of an object as well as the rotation of a central object, the composition of an object and the orbital distance to make a valid estimate for every object, without the need for nuclear fusions, fissions and matter combustion."

From „[Weitter Duckss's Theory of the Universe](#)“ and „[The causal relation between a star and its temperature, gravity, radius and color](#)“

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Brown dwarf (& planets)	Mass of Jupiter	Temperature °K	Planets orbit AU
mass up to 15 Mass of Jupiter			
WISE 1828 + 2650	3 – 6 or 0,5 - 20	250 - 400	
WISE 0855-0714	~3-10	225-260	
CFBDSIR 2149-0403	4-7	~700	
PSO J318.5-22	6,5	1.160	
2MASS J11193254-1137466 (AB)	~5-10	1.012	3,6±0,9
GU Piscium b	9-13	1.000	2.000
WD 0806-661	6-9	300-345	2.500
HD 106906 b	11±2	1.800	120
1RXS 1609 b	8 (14)	1.800	330
DT Virginis	8.5 ± 2.5	695±60	1.168
Cha 110913-773444	8 (+7; -3)	1.300 -1.400	
OTS 44	11,5	1.700 - 2.300	
GQ Lupi b	1 - 36	2650 ± 100	100
ROXs 42Bb	9	1.950 ± 100	157
HD 44627	13 - 14	1.600 -2400	275
VHS 1256-1257 b	11,2 (+9,7; -1,8	880	102±9
DH Tauri b	12	2.750	330
ULAS J003402.77-005206.7	5 - 20	560 - 600	
2M1207b	4 (+6; -1)	1.600±100	40
2M 044144	9.8±1.8	1.800	15 ± 0.6
2MASS J2126-8140	13,3 (± 1,7)	1.800	6.900
HR 8799 b	5 (+2; -1)	870 (+30; -70)	~68
HR 8799 c	7 (+3; -2)	1.090 (+10; -90)	~38
HR 8799 d	7 (+3; -2)	1.090 (+10; -90)	~24
HIP 65426	9,0 ±3,0	1450.0 (± 150.0)	92
mass above 15 Mass of Jupiter			
B Tauri FU	15	2.375	700
CFBDS J005910.90-011401.3	15 - 30	620	
ULAS J133553.45+113005.2	15_31	500 -550	
ULAS J003402.77-005206.7	5_20	550 - 600	
UGPS 0722-05	10.7 ± 0.2—25.8 ± 0.9	502 ±10 - 539 ±12	
GJ 229B	21 - 52,4	950	0,97 (+0,12; -0,10)
54 Piscium B	50	810±50	
WD 0137-349	0.053 ± 0.006 M_☉	1.300 - 1400	0.65 R _☉ (Binary orbit)
G 196-3B	25 (+15; -10)	1870 ± 100	285-640
Oph 11 B	21	2.487	243,0
SCR 1845-6357	40 - 50	2.600 - 2700	
Zeta Delphini B	55 ± 10	1.550 (+250; -100)	910

15 Sagittae B	65	1.647,34	14
Gliese 570	~50	750 - 800	1.500
Epsilon Indi Ba and Bb	40 - 60 (28±7)	1.300-1400 (880-940)	1.500 (between 2,1)
DEN 0255-4700	25 - 60	~1.300	
Teide 1	57± 15	2.600±150	
TVLM 513-46546	90	2.500	
DENIS J081730.0-615520	15	950	

Mass up to 15 MJ/(vs) Mass above 15 MJ

Brown dwarf (& planets)	Mass of Jupiter	Temperature °K	Planets orbit AU
ROXs 42Bb	9	1.950 ± 100	157
54 Piscium B	50	810±50	

DH Tauri b	12	2.750	330
ULAS J133553.45+113005.2	15_31	500 -550	

OTS 44	11,5	1.700 - 2.300	
Epsilon Indi Ba and Bb	40 - 60 (28±7)	1.300-1400 (880-940)	1.500 (between 2,1)

2MASS J2126-8140	13,3 (± 1,7)	1.800	6.900
Gliese 570	~50	750 - 800	1.500

Etc.

Mass vs Mass

2M 044144	9.8±1.8	1.800	15 ± 0.6
DT Virginis	8.5 ± 2.5	695±60	1.168

Teide 1	57± 15	2.600±150	
Epsilon Indi Ba and Bb	40 - 60 (28±7)	1.300-1400 (880-940)	1.500 (between 2,1)

B Tauri FU	15	2.375	700
DENIS J081730.0-615520	15	950	

Etc.

Related article - Updated: [Is there "fast and slow combustion" of stars?](#)

The answer, why there are these differences, in my articles:

["Reassessment of the old but still employed theories of Universe through database checking"](#),

[The causal relation between a star and its temperature, gravity, radius and color](#) &

[Why there are differences in structure of the objects in our system?](#)

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