

## Coronal properties of planet-bearing stars (*Corrigendum*)

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[A&A 515, A98 \(2010\)](#), DOI: [10.1051/0004-6361/201014245](https://doi.org/10.1051/0004-6361/201014245)

**Key words.** planet-star interactions – stars: activity – stars: coronae – stars: statistics – X-rays: stars – errata, addenda

A correction for some wrongly sorted data entries in two tables is given. In Tables 4 and 5 of our previous publication ([Poppenhaeger et al. 2010](#)), the columns containing the  $\log L_X/L_{\text{bol}}$  values for our sample stars and the spectral types in Table 4 were sorted incorrectly.

For all figures and other analyses in the paper, the correct data was used. The corrected tables are given below.

### References

Poppenhaeger, K., Robrade, J., & Schmitt, J. H. M. M. 2010, *A&A*, 515, A98

**Table 4.** Stellar and planetary parameters of planet-bearing stars within 30 pc, as observed by *XMM-Newton*.

Star	Type	Dist. (pc)	$m_V$	$B - V$	$P_*$ (d)	[Fe/H]	$a_{pl}$ (AU)	$M_{pl}$ ( $M_{Jup}$ )	GTI (s)	net countrate <sup>a</sup> (cts/ks)	$F_X$ ( $\text{erg s}^{-1} \text{cm}^{-2}$ )	$\log L_X$ 0.2–2 keV	$\log \frac{L_X}{L_{bol}}$
$\epsilon$ Eri	K2.0 V	3.2	3.73	0.88	11.2	-0.10	3.39	1.55	10385	$5611.5 \pm 23.3^b$	1.38E-11	$28.22 \pm 0.12$	-4.88
GJ 674	M2.5	4.5	9.38	1.53	35.0	-0.28	0.04	0.04	15183	$1102.6 \pm 8.6$	2.16E-12	$27.73 \pm 0.12$	-3.80
GL 876	M4.0 V	4.7	10.17	1.67	41.0	-0.12	0.02	0.02	23436	$48.9 \pm 1.5$	1.13E-13	$26.48 \pm 0.13$	-5.11
VB 10	M8.0 V	5.8	9.91	0.00	-	0.00	0.36	6.40	10810	$23.2 \pm 1.5$	4.91E-14	$26.30 \pm 0.14$	-3.94
GJ 317	M3.5	9.2	12.00	1.53	-	-0.23	0.95	1.20	11245	$14.3 \pm 1.5$	3.30E-14	$26.52 \pm 0.14$	-4.57
HD 62509	K0.0 III	10.3	1.15	1.00	130.0	0.19	1.69	2.90	28759	$31.2 \pm 1.1$	1.01E-13	$27.11 \pm 0.13$	-8.08
GL 86	K1.0 V	11.0	7.40	0.77	31.0	-0.24	0.11	4.01	13071	$116.8 \pm 3.1$	2.94E-13	$27.63 \pm 0.12$	-5.04
55 Cnc	G8.0 V	13.0	5.95	0.87	42.7	0.29	0.04	0.03	8505	$18.6 \pm 1.6$	5.77E-14	$27.07 \pm 0.14$	-6.36
47 UMa	G0.0 V	14.0	5.10	0.56	74.0	0.00	2.11	2.60	6196	$2.6 \pm 0.7$	1.07E-14	$26.40 \pm 0.21$	-7.34
51 Peg	G5.0 V	14.7	5.49	0.67	37.0	0.20	0.05	0.47	25299	$0.4 \pm 0.2$	1.70E-15	$26.28 \pm 0.18$	-7.37
$\tau$ Boo	F7.0 V	15.0	4.50	0.48	3.3	0.28	0.05	3.90	38251	$1252.1 \pm 5.7$	3.21E-12	$28.94 \pm 0.12$	-5.09
HD 160691	G3.0 IV-V	15.3	5.15	0.70	-	0.28	0.09	0.04	7046	$3.6 \pm 1.2$	1.06E-14	$26.47 \pm 0.16$	-7.36
HD 190360	G6.0 IV	15.9	5.71	0.73	-	0.24	0.13	0.06	2888	$2.2 \pm 1.4$	5.23E-15	$26.20 \pm 0.21$	-7.45
HD 99492	K2.0 V	18.0	7.57	1.01	45.0	0.36	0.12	0.11	19928	$7.1 \pm 0.6$	2.44E-14	$26.98 \pm 0.15$	-6.14
14 Her	K0.0 V	18.1	6.67	0.90	-	0.43	2.77	4.64	5532	$14.6 \pm 2.9$	3.25E-14	$27.11 \pm 0.14$	-6.33
HD 154345	G8.0 V	18.1	6.74	0.76	-	-0.11	4.19	0.95	3845	$18.6 \pm 2.4$	5.46E-14	$27.33 \pm 0.16$	-6.03
HD 27442	K2.0 III	18.1	4.44	1.08	-	0.20	1.18	1.28	4636	$3.7 \pm 1.3$	1.23E-14	$26.68 \pm 0.18$	-7.72
$\beta$ Pic	A6.0 V	19.3	3.86	0.17	0.7	0.00	8.00	8.00	54896	$0.2 \pm 0.1^c$	6.00E-16	$25.40 \pm 0.15$	-9.09
HD 189733	K1.5	19.3	7.67	0.93	13.4	-0.03	0.03	1.13	36271	$110.3 \pm 1.8$	4.11E-13	$28.26 \pm 0.12$	-4.84
HD 217107	G8.0 IV	19.7	6.18	0.72	37.0	0.37	0.07	1.33	5576	<6.0	<1.55E-14	<26.86	<-6.79
HD 195019	G3.0 IV-V	20.0	6.91	0.64	22.0	0.08	0.14	3.70	8333	$2.8 \pm 0.8$	6.44E-15	$26.49 \pm 0.17$	-6.86
16 Cyg B	G2.5 V	21.4	6.20	0.66	31.0	0.08	1.68	1.68	10768	<1.6	<5.42E-15	<26.47	<-7.22
HD 164922	K0.0 V	21.9	7.01	0.80	-	0.17	2.11	0.36	6955	<3.5	<1.21E-14	<26.84	<-6.59
HD 4308	G5.0 V	21.9	6.54	0.65	-	-0.31	0.11	0.05	7837	$2.1 \pm 0.7$	7.89E-15	$26.66 \pm 0.19$	-6.92
HD 114783	K0.0	22.0	7.57	0.93	-	0.33	1.20	0.99	3583	$2.1 \pm 1.5$	6.72E-15	$26.59 \pm 0.19$	-6.66
HD 216437	G4.0 IV-V	26.5	6.06	0.63	-	0.00	2.70	2.10	3329	$8.2 \pm 1.9$	1.89E-14	$27.20 \pm 0.18$	-6.73
HD 20367	G0.0	27.0	6.41	0.52	-	0.10	1.25	1.07	8861	$1404.8 \pm 12.6$	2.76E-12	$29.38 \pm 0.12$	-4.40
HD 114386	K3.0 V	28.0	8.80	0.90	-	0.00	1.62	0.99	3601	$2.7 \pm 1.2$	7.19E-15	$26.83 \pm 0.21$	-6.13
HD 52265	G0.0 V	28.0	6.30	0.54	-	0.11	0.49	1.13	6954	$5.6 \pm 1.0$	1.82E-14	$27.23 \pm 0.17$	-6.63
HD 75289	G0.0 V	28.9	6.35	0.58	16.0	0.29	0.05	0.42	6681	$3.0 \pm 0.7$	1.21E-14	$27.09 \pm 0.20$	-6.79
HD 93083	K3.0 V	28.9	8.33	0.94	48.0	0.15	0.48	0.37	7789	$7.4 \pm 1.3$	1.67E-14	$27.22 \pm 0.16$	-5.97
HD 102195	K0.0 V	29.0	8.06	0.83	12.0	0.05	0.05	0.45	13043	$145.9 \pm 3.4$	2.87E-13	$28.46 \pm 0.12$	-4.81
HD 111232	G8.0 V	29.0	7.61	0.68	30.7	-0.36	1.97	6.80	6996	<3.2	<9.72E-15	<26.99	<-6.41
HD 70642	G5.0 IV-V	29.0	7.18	0.71	-	0.16	3.30	2.00	10935	$3.0 \pm 0.7$	6.68E-15	$26.83 \pm 0.17$	-6.75
HD 130322	K0.0 V	30.0	8.05	0.78	8.7	-0.02	0.09	1.08	4194	$16.7 \pm 2.2$	3.87E-14	$27.62 \pm 0.16$	-5.66

**Notes.** <sup>(a)</sup> PN, 0.2-2 keV; <sup>(b)</sup> MOS1 countrate given, since PN detector suffered from pile-up for this observation; <sup>(c)</sup> combined MOS countrate given, since PN detector was optically contaminated.

**Table 5.** Stellar and planetary parameters of planet-bearing stars within 30 pc, as observed by ROSAT.

Star	Type	Dist. (pc)	$m_V$	$B - V$	$P_*$ (d)	[Fe/H]	$a_{\text{pl}}$ (AU)	$M_{\text{pl}}$ ( $M_{\text{jup}}$ )	$\log L_X$ 0.1–2.4 keV	$\log \frac{L_X}{L_{\text{bol}}}$
GJ 832	M1.5	4.9	8.67	1.46	–	–0.31	3.40	0.64	$26.77 \pm 0.21$	–5.04
GL 581	M3.0	6.3	10.55	1.60	84.0	–0.33	0.04	0.05	<26.89	<–4.57
Fomalhaut	A3.0 V	7.7	1.16	0.09	–	0.00	115.00	3.00	<25.90	<–8.88
GJ 849	M3.5	8.8	10.42	1.52	–	0.00	2.35	0.82	$27.25 \pm 0.26$	–4.43
HD 285968	M2.5 V	9.4	9.97	1.51	38.9	–0.10	0.07	0.03	$27.48 \pm 0.28$	–4.42
GJ 436	M2.5	10.2	10.68	1.52	45.0	–0.32	0.03	0.07	$27.16 \pm 0.34$	–4.54
HD 3651	K0.0 V	11.0	5.80	0.92	–	0.05	0.28	0.20	$27.25 \pm 0.23$	–6.11
HD 69830	K0.0 V	12.6	5.95	0.79	–	–0.05	0.08	0.03	$27.47 \pm 0.30$	–5.90
HD 40307	K2.5 V	12.8	7.17	0.93	–	–0.31	0.05	0.01	$26.99 \pm 0.28$	–5.95
HD 147513	G3.0 V	12.9	5.37	0.60	–	–0.03	1.26	1.00	$29.01 \pm 0.16$	–4.56
$\nu$ And	F8.0 V	13.5	4.09	0.54	12.0	0.09	0.06	0.69	$28.11 \pm 0.22$	–6.00
$\gamma$ Cep	K2.0 V	13.8	3.22	1.03	–	0.00	2.04	1.60	$26.96 \pm 0.20$	–7.67
HR 810	G0.0 V	15.5	5.40	0.57	7.0	0.25	0.91	1.94	$28.74 \pm 0.21$	–4.97
HD 128311	K0.0	16.6	7.51	0.99	11.5	0.08	1.10	2.18	$28.52 \pm 0.21$	–4.54
HD 7924	K0.0 V	16.8	7.19	0.82	–	–0.15	0.06	0.03	$27.45 \pm 0.29$	–5.69
HD 10647	F8.0 V	17.3	5.52	0.53	–	–0.03	2.10	0.91	$28.21 \pm 0.17$	–5.54
$\rho$ CrB	G0.0 V	17.4	5.40	0.61	19.0	–0.24	0.22	1.04	<27.69	<–6.13
GJ 3021	G6.0 V	17.6	6.59	0.75	–	0.20	0.49	3.32	$29.02 \pm 0.21$	–4.37
HD 87833	K0.0 V	18.1	7.56	0.97	–	0.09	3.60	1.78	$27.58 \pm 0.20$	–5.52
HD 192263	K2.0 V	19.9	7.79	0.94	27.0	–0.20	0.15	0.72	$28.03 \pm 0.35$	–5.05
HD 39091	G1.0 IV	20.5	5.67	0.58	–	0.09	3.29	10.35	$27.33 \pm 0.20$	–6.52
HD 142	G1.0 IV	20.6	5.70	0.52	–	0.04	0.98	1.00	<28.20	<–5.63
HD 33564	F6.0 V	21.0	5.08	0.45	–	–0.12	1.10	9.10	$27.84 \pm 0.30$	–6.24
HD 210277	G0.0 V	21.3	6.63	0.71	–	0.19	1.10	1.23	<27.85	<–5.68
70 Vir	G4.0 V	22.0	5.00	0.69	31.0	–0.03	0.48	7.44	$27.42 \pm 0.28$	–6.79
HD 19994	F8.0 V	22.4	5.07	0.57	–	0.23	1.30	2.00	$28.16 \pm 0.28$	–6.00
HD 134987	G5.0 V	25.0	6.45	0.70	–	0.23	0.78	1.58	<27.99	<–5.75
HD 16417	G1.0 V	25.5	5.78	0.67	–	0.19	0.14	0.07	<28.28	<–5.73
HD 60532	F6.0 IV-V	25.7	4.45	0.48	–	–0.42	0.76	3.15	<26.98	<–7.53
HD 181433	K3.0 IV	26.1	8.38	1.04	–	0.33	0.08	0.02	<27.08	<–6.05
HD 30562	F8.0 V	26.5	5.77	0.63	–	0.24	2.30	1.29	<26.97	<–7.07
HD 179949	F8.0 V	27.0	6.25	0.50	9.0	0.22	0.05	0.95	$28.61 \pm 0.25$	–5.23
HD 150706	G0.0	27.2	7.03	0.57	–	–0.13	0.82	1.00	$28.88 \pm 0.19$	–4.67
HD 82943	G0.0 V	27.5	6.54	0.62	–	0.27	0.75	2.01	<28.01	<–5.75