Table 1. New T Tauri stars in Taurus–Auriga. Stars marked with the subscript 'P' have been found in ROSAT pointed observations, the other 69 stars in the RASS. For stars marked with the superscript 'X' the X-ray position is given, otherwise the coordinates are taken from the Guide Star Catalogue. [1] HD 285751 has independently been detected as T Tauri star by F. Walter (1993); its X-ray data are also given in Neuhäuser et al. (1995b).

Number	Designation	α (2000.0)	δ (2000.0)	$W_\lambda(H\alpha)$ [Å]	Sp.typ	$M_{\rm GSC}$
1	HD 285281	04:00:31.08	19:35:20.7	0.6	K1	10.0
2	RXJ0403.3+1725	04:03:24.93	17:24:26.2	0.0	K3	11.5
3	RXJ0405.1+2632	04:05:12.34	26:32:44.6	1.8	K2	11.2
4	RXJ0405.3+2009	04:05:19.61	20:09:25.4	1.8	K1	10.2
5	HD 284135	04:05:40.56	22:48:12.1	3.5	G3	9.3
6	HD 284149	04:06:38.82	20:18:11.1	4.1	G1	9.5
7	RXJ0406.8+2541	04:06:51.33	25:41:28.9	-6.2	K7-M0	11.3
8	RXJ0407.8+1750	04:07:53.98	17:50:26.5	-0.2	K4	11.2
9	RXJ0408.2+1956	04:08:13.01	19:56:39.2	-1.5	K2	13.0
10	RXJ0409.1+2901	04:09:09.77	29:01:30.6	1.7	K1	10.1
11	RXJ0409.2+1716	04:09:16.99	17:16:08.2	-5.1	M1	12.9
12	RXJ0409.8+2446	04:09:51.11	24:46:21.5	-2.7	M1.5	13.0
13	RXJ0412.8+1937	04:12:50.65	19:36:58.0	-0.1	K6	11.8
14	RXJ0412.8+2442	04:12:51.24	24:41:44.2	1.1	G9	11.7
15	HD 285579	04:12:59.85	16:11:48.8	3.7	G1	10.7
16	RXJ0413.3+1810^X	04:13:21.86	18:10:38.4	-10.6	M3.5	
17	RXJ0413.4+3352	04:13:27.40	33:52:40.0	1.7	K0	12.6
18	RXJ0415.3+2044	04:15:22.93	20:44:16.5	2.6	K0	10.3
19	RXJ0415.8+3100	04:15:51.42	31:00:36.0	2.6	G6	12.2
20	RXJ0416.5+2053A^X_P	04:16:30.44	20:53:05.5	-3.4	M5	
21	RXJ0416.5+2053B^X_P	04:16:30.44	20:53:05.5	-3.9	M6	
22	RXJ0419.4+2808$_P$	04:19:27.17	28:08:16.7	3.5	G9	14.1
23	RXJ0420.3+3123	04:20:24.17	31:23:23.8	-0.5	K4	12.2
24	RXJ0420.8+3009	04:20:49.87	30:09:15.7	-1.5	K7-M0	14.5
25	RXJ0422.1+1934^X_P	04:22:05.06	19:34:46.6	-20.3	M4.5	
26	RXJ0422.9+2310^X	04:22:59.17	23:10:40.0	3.1	K1	
27	HD 285751[1]	04:23:41.37	15:37:56.0	1.2	K2	10.9
28	BD+26 718	04:24:48.19	26:43:16.4	0.9	K1	11.5
29	BD+26 718B	04:24:49.09	26:43:09.9	2.1	K0	10.5
30	BD+17 724B	04:27:05.94	18:12:36.4	3.3	G5	
31	RXJ0430.8+2113	04:30:49.13	21:14:11.3	1.9	G8	9.9
32	HD 284496	04:31:16.85	21:50:25.5	1.9	K0	10.4
33	RXJ0431.3+1800^X_P	04:31:23.98	18:00:34.7	-27.0	M5	
34	RXJ0431.4+2035^X	04:31:29.63	20:35:10.8	-4.4	M4	
35	RXJ0432.6+1809^X_P	04:32:40.45	18:09:30.5	-5.8	M5	
36	RXJ0432.7+1853$_P$	04:32:42.43	18:55:10.2	1.9	K1	10.5
37	RXJ0432.8+1735$_P$	04:32:53.22	17:35:34.0	-1.7	M2	13.3
38	RXJ0433.5+1916	04:33:34.68	19:16:48.6	2.7	G6	12.9
39	RXJ0433.7+1823	04:33:42.01	18:24:27.4	1.9	G6	11.9

Table 1. New T Tauri stars in Taurus–Auriga (continued).

Number	Designation	α (2000.0)	δ (2000.0)	$W_\lambda(H\alpha)$ [$\AA$]	Sp.typ	$M_{\rm GSC}$
40	RXJ0435.9+2352	04:35:56.81	23:52:05.4	-2.5	M1.5	13.7
41	RXJ0437.2+3108	04:37:16.87	31:08:19.8	0.7	K4	12.5
42	RXJ0437.4+1851A	04:37:26.84	18:51:25.8	-1.1	K6	10.7
43	RXJ0437.4+1851B	04:37:26.84	18:51:25.8	-5.0	M0.5	
44	RXJ0438.2+2023	04:38:13.04	20:22:47.0	1.2	K2	11.6
45	RXJ0438.2+2302	04:38:15.59	23:02:28.1	-1.3	M1	13.4
46	RXJ0438.4+1543	04:38:27.63	15:43:38.2	-0.5	K3	12.9
47	HD 285957	04:38:39.01	15:46:13.7	-0.6	K1	9.9
48	RXJ0439.4+3332A	04:39:25.47	33:32:46.0	-0.7	K5	11.2
49	RXJ0441.4+2715	04:41:24.00	27:15:13.2	2.5	G8	12.7
50	HD 283798	04:41:55.16	26:58:49.8	3.8	G7	8.9
51	RXJ0443.4+1546	04:43:25.98	15:46:03.6	1.8	G7	12.3
52	RXJ0444.3+2017	04:44:23.47	20:17:17.4	1.0	K1	12.0
53	RXJ0444.4+1952	04:44:26.78	19:52:17.5	0.0	M1	11.6
54	RXJ0444.9+2717	04:44:54.36	27:17:46.0	-2.1	K1	9.1
55	HD 30171	04:45:51.31	15:55:50.2	2.6	G5	9.0
56	RXJ0446.8+2255	04:46:53.22	22:55:13.1	-0.9	M1	12.6
57	RXJ0447.9+2755	04:48:00.43	27:56:19.9	2.5	K0	12.4
58	RXJ0450.0+2230	04:50:00.21	22:29:58.0	1.4	K1	11.1
59	RXJ0451.8+1758	04:51:54.24	17:58:28.1	-3.4	M1.5	13.9
60	RXJ0451.9+2849A	04:51:56.90	28:49:42.7	1.5	K4	13.3
61	RXJ0451.9+2849B	04:51:56.52	28:49:26.2	3.4	K2	14.6
62	RXJ0452.5+1730	04:52:30.76	17:30:25.8	0.9	K4	12.1
63	RXJ0452.8+1621	04:52:50.15	16:22:09.6	-0.5	K6	11.3
64	RXJ0452.9+1920	04:52:57.08	19:19:50.6	-1.0	K5	12.1
65	RXJ0453.1+3311	04:53:08.69	33:12:01.6	3.8	G8	14.5
66	HD 31281	04:55:09.62	18:26:31.2	3.0	G1	9.1
67	RXJ0455.7+1742	04:55:47.67	17:42:02.1	1.1	K3	11.1
68	RXJ0456.2+1554	04:56:13.56	15:54:22.0	-0.5	K7	12.5
69	RXJ0456.7+1521^X	04:56:45.71	15:21:33.8	-14.8	M3.5	
70	RXJ0457.0+1600	04:56:56.54	16:00:24.8	-7.0	M1	14.1
71	HD 286179	04:57:00.65	15:17:53.0	3.3	G3	9.9
72	RXJ0457.0+3142	04:57:06.53	31:42:50.3	-0.2	K2	10.1
73	RXJ0457.2+1524	04:57:17.66	15:25:09.7	1.7	K1	10.2
74	RXJ0457.5+2014	04:57:30.64	20:14:29.1	-0.1	K3	10.9
75	RXJ0458.7+2046[1]	04:58:39.73	20:46:43.7	0.9	K7	11.6
76	RXJ0459.7+1430	04:59:46.13	14:30:55.4	-0.1	K4	11.8

[1] discovered on the basis of preliminary RASS data, but not detected in EXSAS reduction, therefore in Tab. 6 for this star no X-ray data is given

Table 2. Non-TTS emission-line stars found in the course of our survey. Stars marked with a 'P' have been found by pointed observations. For stars marked with an 'X' the X-ray position is given, otherwise the coordinates are taken from the Guide Star Catalogue.

Designation	$\alpha(2000.0)$	$\delta(2000.0)$	Count rate $[1/sec]$	Sp.typ	$W_\lambda(H\alpha)$ $[\AA]$
RXJ0403.9+2446	04:03:54.4	+24:47:21.5	0.092±0.023	K4	-0.3
RXJ0407.8+3356	04:07:53.3	+33:56:04.6	0.051±0.012	K3	0.0
RXJ0409.3+1800	04:09:18.3	+17:59:55.7	0.061±0.020	K7-M0	-0.8
RXJ0411.2+2215	04:11:16.6	+22:15:23.4	0.015±0.007	K7-M0	-0.5
RXJ0411.3+2323	04:11:21.0	+23:23:10.0	0.082±0.020	M0	-1.4
RXJ0414.4+1742	04:14:30.2	+17:42:44.6	0.018±0.008	M4.5	-3.8
RXJ0416.0+3325	04:16:02.4	+33:25:30.0	0.038±0.009	M2	-2.3
RXJ0416.5+2456^X	04:16:32.6	+24:56:21.3	0.015±0.007	M5	-6.8
RXJ0418.4+1458^X	04:18:27.3	+14:58:22.6	0.044±0.015	M3.5	-3.4
RXJ0419.3+3034^X	04:19:21.2	+30:34:14.6	0.012±0.006	M3	-3.9
RXJ0419.8+3009	04:19:53.7	+30:09:54.0	0.068±0.011	K1	0.0
RXJ0421.5+2029	04:21:32.0	+20:29:28.0	0.031±0.010	M3.5	-4.2
RXJ0422.6+2542	04:22:36.8	+25:42:00.0	0.066±0.016	K4	0.0
RXJ0423.7+2940	04:23:47.7	+29:40:39.4	0.047±0.011	K2	0.0
RXJ0426.3+1836^X_P	04:26:22.3	+18:36:56.2	0.011±0.002	M3	-3.2
RXJ0426.8+1851^X_P	04:26:50.4	+18:51:03.5	0.005±0.002	K4	0.0
RXJ0427.8+1851^X_P	04:27:51.7	+18:51:02.0	0.015±0.003	M1.5	-2.3
RXJ0429.1+2421	04:29:08.3	+24:21:27.0	0.064±0.017	M0.5	-1.2
RXJ0430.5+3003	04:30:31.6	+30:03:15.8	0.037±0.013	K0	0.0
RXJ0430.6+2254	04:30:38.1	+22:54:29.5	0.097±0.019	M2.5	-3.4
RXJ0431.7+1747$_P$	04:31:43.8	+17:47:26.2	0.004±0.001	K1	-1.3
RXJ0431.7+1450	04:31:46.1	+14:50:42.4	0.032±0.013	M0	-1.4
RXJ0433.3+2359	04:33:23.6	+23:59:27.6	0.282±0.030	M3.5	-2.0
RXJ0433.6+1846	04:33:42.7	+18:45:59.8	0.027±0.011	M4.5	-4.9
RXJ0436.0+1853	04:36:04.1	+18:53:19.3	0.107±0.021	M3.5	-3.9
RXJ0436.1+2733	04:36:08.7	+27:33:27.4	0.039±0.013	M4	-3.7
RXJ0437.9+2653^X	04:37:56.0	+26:53:22.8	0.044±0.014	M4	-2.7
RXJ0439.2+2749	04:39:13.6	+27:49:30.0	0.038±0.013	K5	-0.3
RXJ0439.4+3332B	04:39:23.2	+33:31:50.9	0.189±0.026	M2.5	-8.1
RXJ0440.3+3126	04:40:22.9	+31:26:49.2	0.086±0.018	M3	-6.2
RXJ0441.8+3240^X	04:41:51.6	+32:40:30.9	0.020±0.008	M5	-3.6
RXJ0441.4+1404	04:41:27.6	+14:04:34.0	0.197±0.027	M2.5	-4.4
RXJ0443.3+3331	04:43:21.1	+33:31:07.3	0.040±0.014	M0.5	-0.6
RXJ0444.1+1401	04:44:08.3	+14:01:25.0	0.076±0.018	M4	-4.5
RXJ0444.2+2216	04:44:17.3	+22:16:29.6	0.037±0.010	M4	-1.7
RXJ0444.3+1428	04:44:19.3	+14:28:00.5	0.052±0.015	M0	-0.9
RXJ0444.9+1935	04:44:55.7	+19:36:06.5	0.047±0.014	M0.5	-1.7
RXJ0447.2+2038	04:47:12.2	+20:38:11.8	0.125±0.021	M3	-11.0
RXJ0448.9+1914	04:48:58.0	+19:14:55.7	0.023±0.010	K0	0.0
RXJ0450.2+2037	04:50:16.6	+20:37:33.2	0.090±0.019	M4.5	-4.0
RXJ0451.0+3127	04:51:01.1	+31:27:24.5	0.255±0.029	M4	-1.9
RXJ0451.0+1458	04:51:02.3	+14:58:16.7	0.073±0.017	M0	-0.2
RXJ0454.0+2201	04:54:05.7	+22:00:55.1	0.035±0.015	M0.5	-0.6
RXJ0455.9+2002	04:55:59.4	+20:02:48.5	0.032±0.013	M1	-1.3
RXJ0456.5+3023^X_P	04:56:30.0	+30:23:00.0	0.011±0.003	M3	-2.5
RXJ0457.7+3121	04:57:45.3	+31:21:38.9	0.041±0.018	M0	-1.0
RXJ0459.1+1651	04:59:07.6	+16:51:55.1	0.106±0.022	M4	-5.9

Table 3. Original ROSAT X-ray data and spectral fit results for new TTS, listed with designation, likelihood of existence (ML), background subtracted RASS X-ray counts with errors (0.1 to 2.4 keV energy range), exposure time, hardness ratios with errors, and results of spectral fits: X-ray absorbing column density N_H, energy $k \cdot T_X$ of the emitting plasma (both are free fit parameters), and dereddened X-ray luminosity L_X (in 140 pc distance). For X-ray sources marked with the superscript 'P' data are from pointed observations, otherwise from the RASS.

Designation	ML	Counts	Exp. [sec]	HR 1	HR 2	$\log N_H$ (N_H/cm^2)	$k \cdot T_X$ $[keV]$	$L_X/10^{30}$ $[erg/sec]$
HD 285281	96.5	55.7±9.7	422.8	0.56±0.14	-0.07±0.18	$18.95^{+0.80}_{-0.95}$	$0.78^{+0.18}_{-0.22}$	$2.94^{+0.66}_{-0.62}$
RXJ0403.3+1725	11.0	17.1±6.5	409.5	0.02±0.37	0.01±0.49	$18.00^{+1.75}_{-0.00}$	$2.02^{+0.00}_{-1.73}$	$1.06^{+0.54}_{-0.56}$
RXJ0405.1+2632	41.3	46.2±9.9	499.1	0.24±0.21	0.29±0.27	$18.00^{+2.05}_{-0.00}$	$1.22^{+0.80}_{-0.22}$	$2.31^{+1.12}_{-0.61}$
RXJ0405.3+2009	63.8	75.7±11.8	403.6	0.21±0.15	0.02±0.20	$18.00^{+1.90}_{-0.00}$	$1.09^{+0.93}_{-0.73}$	$4.58^{+1.71}_{-1.44}$
HD 284135	75.2	66.5±11.2	466.0	0.89±0.10	-0.05±0.17	$20.45^{+1.55}_{-0.35}$	$0.79^{+0.17}_{-0.69}$	$3.46^{+1.01}_{-0.70}$
HD 284149	69.4	52.5±9.9	463.1	0.74±0.14	0.31±0.18	$20.30^{+0.35}_{-0.40}$	$1.22^{+0.80}_{-0.23}$	$3.14^{+1.85}_{-0.94}$
RXJ0406.8+2541	58.3	51.0±10.1	541.5	1.00±0.03	0.45±0.17	$20.90^{+1.10}_{-2.90}$	$1.86^{+0.16}_{-1.50}$	$3.54^{+1.31}_{-1.74}$
RXJ0407.8+1750	38.2	41.8±8.8	373.0	0.35±0.20	-0.17±0.25	$18.00^{+2.05}_{-0.00}$	$0.48^{+0.37}_{-0.16}$	$2.31^{+0.81}_{-0.55}$
RXJ0408.2+1956	29.7	15.1±4.9	389.0	0.89±0.29	0.84±0.18	$22.00^{+0.00}_{-0.35}$	$2.02^{+0.00}_{-0.91}$	$2.64^{+0.86}_{-1.54}$
RXJ0409.1+2901	102.0	111.1±14.9	673.1	-0.11±0.13	-0.08±0.19	$18.00^{+1.05}_{-0.00}$	$0.31^{+0.01}_{-0.02}$	$3.21^{+0.44}_{-0.45}$
RXJ0409.2+1716	13.6	16.3±5.8	393.0	0.37±0.33	-0.63±0.41	$20.65^{+1.20}_{-2.65}$	$0.20^{+0.36}_{-0.16}$	$1.35^{+4.45}_{-0.82}$
RXJ0409.8+2446	15.7	18.9±6.4	558.3	-0.07±0.33	-0.57±0.39	$19.90^{+1.25}_{-1.90}$	$0.24^{+0.14}_{-0.18}$	$0.74^{+2.86}_{-0.33}$
RXJ0412.8+1937	29.4	17.5±5.3	469.6	0.76±0.29	-0.61±0.24	$21.00^{+1.00}_{-0.60}$	$0.19^{+0.16}_{-0.14}$	$1.33^{+1.17}_{-0.67}$
RXJ0412.8+2442	20.2	20.7±6.5	627.1	0.73±0.26	0.18±0.32	$20.10^{+1.90}_{-1.35}$	$1.04^{+0.98}_{-0.90}$	$0.82^{+0.82}_{-0.31}$
HD 285579	15.4	7.4±3.4	426.7	1.00±0.19	0.17±0.23	$19.25^{+2.75}_{-1.25}$	$1.03^{+0.99}_{-0.91}$	$0.40^{+0.48}_{-0.20}$
RXJ0413.3+1810	39.6	16.7±5.0	432.3	0.58±0.24	-0.21±0.30	$19.40^{+1.20}_{-1.40}$	$0.61^{+0.34}_{-0.36}$	$0.84^{+0.66}_{-0.29}$
RXJ0413.4+3352	10.1	12.1±5.2	724.5	0.44±0.33	0.02±0.42	$18.00^{+2.30}_{-0.00}$	$0.91^{+1.11}_{-0.57}$	$0.39^{+0.41}_{-0.20}$
RXJ0415.3+2044	54.5	64.1±11.8	632.5	0.44±0.18	0.30±0.19	$19.60^{+0.65}_{-1.60}$	$1.21^{+0.81}_{-0.24}$	$2.46^{+1.48}_{-0.56}$
RXJ0415.8+3100	9.4	12.8±5.5	743.8	1.00±0.18	-0.40±0.41	$21.75^{+0.25}_{-3.75}$	$0.13^{+0.73}_{-0.08}$	$0.53^{+0.68}_{-0.41}$
RXJ0416.5+2053^P	8.4	6.4±2.9	2919.7	1.00±0.00	-0.27±0.49	$21.05^{+0.95}_{-3.05}$	$0.41^{+0.68}_{-0.35}$	$0.05^{+0.08}_{-0.03}$
RXJ0419.4+2808^P	8.7	16.1±5.3	1548.2	1.00±0.00	0.07±0.52	$21.85^{+0.15}_{-3.85}$	$0.34^{+1.68}_{-0.26}$	$0.22^{+0.14}_{-0.05}$
RXJ0420.3+3123	13.9	16.8±6.3	802.8	0.69±0.26	-0.08±0.37	$19.70^{+1.05}_{-1.70}$	$0.77^{+0.40}_{-0.48}$	$0.47^{+0.33}_{-0.20}$
RXJ0420.8+3009	7.8	8.2±3.9	809.5	0.98±0.41	0.45±0.49	$22.00^{+0.00}_{-2.10}$	$0.74^{+1.28}_{-0.62}$	$0.36^{+0.66}_{-0.23}$
RXJ0422.1+1934^P	62.3	19.1±4.5	647.4	0.80±0.19	0.25±0.26	$20.35^{+1.65}_{-0.55}$	$1.11^{+0.91}_{-0.87}$	$0.68^{+0.29}_{-0.09}$
RXJ0422.9+2310	7.8	8.6±4.4	772.3	0.78±0.49	-0.54±0.40	$20.85^{+1.15}_{-2.85}$	$0.23^{+0.46}_{-0.18}$	$0.36^{+0.67}_{-0.25}$
HD 285751	75.0	79.7±13.0	655.1	0.34±0.17	0.12±0.20	$18.00^{+1.55}_{-0.00}$	$1.03^{+0.22}_{-0.16}$	$2.93^{+0.60}_{-0.59}$
BD+26 718	168.1	103.5±13.3	710.9	1.00±0.01	0.41±0.12	$20.55^{+1.45}_{-2.55}$	$1.69^{+0.33}_{-1.31}$	$4.99^{+1.59}_{-1.95}$
BD+17 724B	168.0	97.3±12.7	787.0	0.45±0.11	0.03±0.13	$18.00^{+1.35}_{-0.00}$	$0.91^{+0.11}_{-0.11}$	$2.88^{+0.46}_{-0.46}$
RXJ0430.8+2113	129.2	103.3±13.6	592.8	0.24±0.13	-0.12±0.16	$18.00^{+1.95}_{-0.00}$	$0.43^{+0.53}_{-0.12}$	$3.53^{+1.12}_{-0.55}$
HD 284496	32.1	50.6±11.2	653.6	0.21±0.21	-0.03±0.26	$18.00^{+2.35}_{-0.00}$	$1.05^{+0.97}_{-0.81}$	$1.87^{+1.07}_{-0.70}$
RXJ0431.3+1800^P	30.6	15.2±4.3	3886.1	0.83±0.35	0.26±0.26	$20.45^{+1.55}_{-1.05}$	$1.13^{+0.89}_{-1.00}$	$0.09^{+0.04}_{-0.02}$
RXJ0431.4+2035	9.2	11.2±5.0	585.1	0.55±0.38	-0.20±0.46	$19.05^{+2.85}_{-1.05}$	$0.62^{+0.51}_{-0.51}$	$0.41^{+0.58}_{-0.20}$
RXJ0432.6+1809^P	23.8	11.6±3.5	3857.2	0.81±0.45	1.00±0.00	$20.90^{+1.10}_{-2.90}$	$0.23^{+1.79}_{-0.19}$	$0.08^{+0.05}_{-0.01}$
RXJ0432.7+1853^P	10.4	20.3±17.0	2240.7	0.88±0.92	-0.34±0.42	$20.75^{+1.25}_{-2.75}$	$0.37^{+0.56}_{-0.31}$	$0.20^{+0.16}_{-0.05}$
RXJ0432.8+1735^P	23.7	12.8±5.5	3394.9	1.00±0.00	0.25±0.22	$21.95^{+0.05}_{-3.95}$	$0.44^{+1.58}_{-0.30}$	$0.21^{+0.07}_{-0.05}$
RXJ0433.5+1916	7.8	7.0±3.6	545.6	0.64±0.38	0.75±0.64	$20.30^{+1.70}_{-1.05}$	$1.65^{+0.37}_{-0.87}$	$0.41^{+0.92}_{-0.26}$
RXJ0433.7+1823	14.6	14.8±5.4	556.1	1.00±0.12	0.48±0.36	$21.05^{+0.95}_{-3.05}$	$1.91^{+0.11}_{-1.69}$	$1.02^{+1.35}_{-0.64}$
RXJ0435.9+2352	148.2	108.8±14.1	675.0	0.62±0.10	0.20±0.12	$19.85^{+0.30}_{-0.40}$	$1.07^{+0.18}_{-0.12}$	$3.88^{+1.00}_{-0.68}$
RXJ0437.2+3108	8.8	8.5±4.2	646.9	1.00±0.22	0.73±0.31	$21.80^{+0.20}_{-1.10}$	$1.58^{+0.44}_{-0.89}$	$0.62^{+0.71}_{-0.42}$
RXJ0437.4+1851	136.4	127.0±15.7	619.9	0.09±0.12	0.17±0.17	$19.00^{+0.75}_{-1.00}$	$2.02^{+0.00}_{-0.92}$	$5.23^{+1.17}_{-0.89}$
RXJ0438.2+2023	7.7	11.0±4.5	595.1	0.82±0.44	-0.05±0.41	$20.20^{+1.80}_{-2.20}$	$0.80^{+0.49}_{-0.72}$	$0.44^{+0.40}_{-0.21}$

Table 3. Original RASS X-ray data and spectral fit results for new TTS (continued).

Designation	ML	Counts	Exp. [sec]	HR 1	HR 2	$\log N_H$ (N_H/cm^2)	$k \cdot T_X$ $[keV]$	$L_X/10^{30}$ $[erg/sec]$
RXJ0438.2+2302	19.3	15.9±5.5	630.9	0.24±0.31	-0.57±0.27	$20.35^{+0.65}_{-2.35}$	$0.23^{+0.21}_{-0.11}$	$0.70^{+0.83}_{-0.37}$
RXJ0438.4+1543	8.2	7.2±3.8	570.0	0.43±0.39	-0.05±0.42	$18.00^{+2.40}_{-0.00}$	$0.85^{+1.17}_{-0.57}$	$0.29^{+0.30}_{-0.17}$
HD 285957	34.0	31.6±7.8	583.5	0.51±0.22	0.01±0.24	$18.75^{+1.20}_{-0.75}$	$0.87^{+0.26}_{-0.30}$	$1.24^{+0.41}_{-0.37}$
RXJ0439.4+3332	65.9	91.4±13.6	656.4	-0.06±0.15	-0.10±0.21	$18.00^{+1.80}_{-0.00}$	$0.32^{+0.05}_{-0.06}$	$2.72^{+0.72}_{-0.44}$
RXJ0441.4+2715	15.9	13.0±4.9	624.9	1.00±0.14	0.36±0.37	$18.40^{+3.60}_{-0.40}$	$1.97^{+0.05}_{-1.84}$	$0.53^{+0.92}_{-0.24}$
HD 283798	23.5	19.0±6.1	666.1	0.48±0.12	0.31±0.15	$19.70^{+0.55}_{-0.75}$	$1.21^{+0.81}_{-0.18}$	$0.70^{+0.53}_{-0.25}$
RXJ0443.4+1546	8.3	6.0±3.4	671.2	1.00±0.29	0.35±0.25	$18.55^{+3.45}_{-0.55}$	$1.37^{+0.65}_{-1.16}$	$0.22^{+0.37}_{-0.14}$
RXJ0444.3+1952	31.9	24.5±6.8	627.4	1.00±0.07	0.27±0.29	$19.70^{+2.30}_{-1.70}$	$1.16^{+0.86}_{-1.03}$	$0.95^{+1.09}_{-0.31}$
RXJ0444.4+2017	9.7	12.2±5.5	590.4	0.20±0.51	0.20±0.66	$18.00^{+2.40}_{-0.00}$	$1.21^{+0.81}_{-0.92}$	$0.52^{+0.52}_{-0.29}$
RXJ0444.9+2717	87.2	62.7±10.7	648.7	1.00±0.02	0.03±0.17	$21.75^{+0.25}_{-3.75}$	$0.45^{+0.62}_{-0.34}$	$2.49^{+0.73}_{-0.73}$
HD 30171	149.7	100.9±13.2	645.2	0.65±0.10	0.12±0.13	$19.80^{+0.30}_{-0.45}$	$0.98^{+0.14}_{-0.13}$	$3.66^{+0.80}_{-0.60}$
RXJ0446.8+2255	20.1	22.3±6.8	604.0	-0.17±0.30	-0.32±0.21	$18.00^{+1.65}_{-0.00}$	$0.30^{+0.05}_{-0.04}$	$0.71^{+0.28}_{-0.23}$
RXJ0447.9+2755	14.4	11.8±4.8	664.8	0.93±0.46	0.75±0.34	$21.80^{+0.20}_{-1.15}$	$1.80^{+0.22}_{-1.14}$	$0.91^{+0.79}_{-0.59}$
RXJ0450.0+2230	47.3	54.5±10.5	619.8	0.31±0.18	0.18±0.22	$18.00^{+1.95}_{-0.00}$	$1.08^{+0.94}_{-0.16}$	$2.14^{+0.95}_{-0.50}$
RXJ0451.8+1758	30.1	25.5±7.1	651.6	0.72±0.21	-0.23±0.27	$20.05^{+0.80}_{-2.05}$	$0.56^{+0.33}_{-0.30}$	$0.90^{+0.61}_{-0.30}$
RXJ0451.9+2849	10.9	10.3±4.9	678.3	1.00±0.19	0.33±0.41	$19.20^{+2.80}_{-1.20}$	$1.28^{+0.74}_{-1.16}$	$0.37^{+0.79}_{-0.19}$
RXJ0452.5+1730	13.3	22.1±7.0	684.2	0.66±0.28	-0.10±0.32	$19.60^{+1.10}_{-1.60}$	$0.76^{+0.32}_{-0.44}$	$0.72^{+0.41}_{-0.26}$
RXJ0452.8+1621	39.3	28.1±6.9	607.3	0.83±0.20	-0.01±0.24	$20.25^{+1.75}_{-0.75}$	$0.84^{+0.25}_{-0.74}$	$1.11^{+0.48}_{-0.33}$
RXJ0452.9+1920	23.5	29.3±7.9	592.6	0.48±0.21	-0.12±0.29	$18.00^{+2.20}_{-0.00}$	$0.75^{+0.28}_{-0.42}$	$1.11^{+0.41}_{-0.37}$
RXJ0453.1+3311	11.6	7.9±3.9	682.6	0.89±0.54	0.22±0.24	$20.55^{+1.45}_{-2.55}$	$1.07^{+0.95}_{-0.94}$	$0.31^{+0.36}_{-0.18}$
HD 31281	213.4	113.1±13.6	603.3	0.74±0.09	0.03±0.12	$19.95^{+0.30}_{-0.30}$	$0.88^{+0.12}_{-0.12}$	$4.37^{+0.78}_{-0.66}$
RXJ0455.7+1742	19.4	22.1±7.0	582.7	0.22±0.30	0.45±0.40	$19.45^{+0.70}_{-1.45}$	$1.62^{+0.40}_{-0.62}$	$0.97^{+0.61}_{-0.36}$
RXJ0456.2+1554	9.1	12.7±5.7	649.1	0.81±0.42	0.10±0.42	$20.25^{+1.75}_{-2.25}$	$0.95^{+1.07}_{-0.86}$	$0.48^{+0.63}_{-0.25}$
RXJ0456.7+1521	14.2	12.1±5.1	667.0	0.53±0.37	0.55±0.37	$20.15^{+0.55}_{-1.65}$	$1.66^{+0.36}_{-0.61}$	$0.55^{+0.42}_{-0.30}$
HD 286179	8.3	7.0±3.9	642.7	0.72±0.63	0.85±0.41	$22.00^{+0.00}_{-1.00}$	$2.01^{+0.01}_{-1.22}$	$0.74^{+0.42}_{-0.59}$
RXJ0457.0+1600	36.3	41.4±9.3	601.4	0.42±0.24	-0.22±0.27	$18.00^{+2.35}_{-0.00}$	$0.53^{+0.37}_{-0.25}$	$1.45^{+0.78}_{-0.38}$
RXJ0457.0+3142	23.6	16.3±5.5	642.4	1.00±0.08	0.71±0.27	$21.70^{+0.30}_{-0.85}$	$1.93^{+0.09}_{-1.20}$	$1.23^{+1.08}_{-0.71}$
RXJ0457.2+1524	15.0	19.8±6.6	704.7	1.00±0.12	0.40±0.22	$22.00^{+0.00}_{-1.35}$	$0.64^{+1.38}_{-0.37}$	$0.94^{+0.67}_{-0.46}$
RXJ0457.5+2014	87.4	84.3±12.6	599.5	0.15±0.16	0.06±0.20	$18.00^{+1.90}_{-0.00}$	$1.17^{+0.85}_{-0.25}$	$3.49^{+1.20}_{-0.70}$
RXJ0459.7+1430	126.3	94.7±13.2	652.1	0.69±0.11	-0.03±0.14	$19.75^{+0.35}_{-0.60}$	$0.83^{+0.13}_{-0.16}$	$3.30^{+0.64}_{-0.54}$

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Table 4. X-ray sources in pointed observations (cf. Tab.1). Listed are designation, position of the X-ray source, background subtracted X-ray count rate with errors (0.1 to 2.4 keV energy range) and hardness ratios.

Designation	α(2000.0)	δ(2000.0)	Count rate	HR 1	HR 2
		Leer 1			
RXJ0415.3+2044	04:15:23.52	+20:44:15.8	0.065±0.004	0.62±0.07	0.02±0.08
HD 26874	04:15:42.11	+20:49:09.5	0.084±0.005	-0.40±0.06	0.13±0.13
RXJ0416.5+2053	04:16:30.44	+20:53:05.5	0.002±0.001	1.00±0.00	-0.27±0.49
RXJ0417.3+2054	04:17:23.46	+20:54:33.1	0.005±0.002	0.59±0.44	0.04±0.41
HD 284336	04:17:26.81	+20:33:19.1	0.035±0.003	-0.44±0.08	-0.30±0.16
RXJ0417.6+2042	04:17:38.43	+20:42:39.0	0.003±0.001	0.99±0.32	0.28±0.31
HD 284338	04:18:21.29	+20:21:50.6	0.005±0.002	-0.21±0.28	-0.17±0.48
RXJ0418.6+2047	04:18:37.80	+20:47:07.7	0.005±0.002	1.00±0.00	0.84±0.27
HD 27250	04:18:56.87	+19:54:47.2	0.020±0.004	-0.87±0.23	0.00±0.00
RXJ0419.1+2023	04:19:06.74	+20:23:11.8	0.013±0.002	1.00±0.00	0.32±0.18
HR 1339	04:19:25.77	+21:08:16.1	0.138±0.010	0.02±0.08	-0.03±0.11
		RY Tau			
V410 Tau	04:18:30.59	+28:27:27.9	0.105±0.008	0.71±0.07	0.26±0.07
RXJ0418.7+2832	04:18:42.35	+28:32:16.2	0.038±0.007	1.00±0.00	-0.72±1.36
Hubble 4	04:18:45.84	+28:20:10.9	0.089±0.007	1.00±0.00	0.40±0.08
RXJ0418.8+2833	04:18:52.42	+28:33:02.8	0.029±0.006	1.00±0.00	-1.00±0.00
RXJ0419.2+2751	04:19:15.28	+27:51:23.6	0.029±0.005	0.99±0.23	0.57±0.17
V819 Tau	04:19:25.96	+28:26:33.1	0.036±0.005	0.89±0.11	0.33±0.13
RXJ0419.4+2808	04:19:27.19	+28:08:37.6	0.010±0.003	1.00±0.00	0.07±0.52
LkCa 7	04:19:40.86	+27:50:11.2	0.071±0.007	0.51±0.11	0.01±0.12
RXJ0420.3+2817	04:20:22.73	+28:17:54.5	0.003±0.001	0.52±0.51	0.31±0.43
RXJ0421.3+2747	04:21:18.86	+27:47:00.9	0.011±0.003	0.94±0.47	-0.44±0.34
RXJ0421.3+2750	04:21:18.94	+27:50:37.9	0.041±0.006	1.00±0.00	0.48±0.24
RXJ0421.4+2829	04:21:27.28	+28:29:52.3	0.006±0.002	0.65±0.36	0.26±0.33
V987 Tau	04:21:58.36	+28:18:14.8	0.442±0.013	0.85±0.02	0.19±0.03
LkCa 21	04:22:03.28	+28:25:44.7	0.021±0.003	0.86±0.12	-0.11±0.15
RXJ0422.1+2804	04:22:08.34	+28:04:27.1	0.009±0.003	0.30±0.41	0.47±0.36
RXJ0422.4+2809	04:22:26.34	+28:09:12.5	0.010±0.003	-1.00±0.00	0.00±0.00
RXJ0423.2+2736	04:23:15.36	+27:36:07.7	0.028±0.007	0.00±0.00	0.00±0.00
RXJ0424.4+2746	04:24:25.46	+27:46:47.4	0.490±0.088	-0.93±0.24	0.00±0.00
		UX Tau			
HR 1385	04:24:57.59	+19:02:56.9	0.087±0.008	-0.34±0.09	-0.39±0.21
HG 7-204	04:25:14.11	+18:58:52.3	0.028±0.004	-0.22±0.16	-0.21±0.30
LP 17-721	04:25:43.81	+18:00:59.4	0.024±0.008	-1.00±0.00	-1.00±0.00
HD 27989	04:25:51.94	+18:52:12.1	0.118±0.008	-0.23±0.06	-0.35±0.10
RXJ0426.3+1836	04:26:22.25	+18:36:56.2	0.011±0.002	0.81±0.14	-0.29±0.20
RXJ0426.8+1851	04:26:50.42	+18:51:03.5	0.005±0.002	0.76±0.24	0.34±0.28
RXJ0426.8+1827	04:26:53.54	+18:27:39.2	0.005±0.002	0.28±0.39	1.00±0.00
RXJ0426.9+1819	04:26:54.28	+18:19:38.6	0.069±0.006	0.36±0.09	0.27±0.11
RXJ0426.9+1836	04:26:59.86	+18:36:09.1	0.007±0.002	-0.10±0.27	0.22±0.38
BD+17 724B	04:27:06.45	+18:12:56.5	0.235±0.012	0.27±0.05	-0.16±0.07
NTTS 042417+1744	04:27:07.62	+17:52:49.5	0.003±0.008	-1.00±0.00	0.00±0.00
RXJ0427.9+1851	04:27:51.73	+18:51:02.0	0.015±0.003	-0.09±0.18	-0.28±0.26
HD 285766	04:27:58.74	+18:30:12.9	0.044±0.005	-0.01±0.12	-0.24±0.17
HG 7-224	04:27:59.69	+18:45:53.2	0.041±0.004	-0.23±0.10	-0.01±0.17
HR 1409	04:28:38.76	+19:11:17.9	0.014±0.004	-0.39±0.27	-1.00±0.00
LkCa 11	04:29:01.75	+18:40:32.7	0.101±0.007	-0.19±0.07	0.10±0.13

Table 4. X-ray sources in pointed observations (continued)

Designation	α(2000.0)	δ(2000.0)	Count rate	HR 1	HR 2
		V826 Tau			
HD 28394	04:29:20.78	+17:33:15.1	0.129±0.011	-0.20±0.08	-0.29±0.13
HD 285773	04:29:31.45	+17:53:02.2	0.056±0.006	-0.46±0.10	-0.51±0.24
UX Tau	04:30:03.51	+18:14:07.8	0.089±0.006	1.00±0.00	0.13±0.07
LP 415-148	04:30:24.48	+17:30:11.1	0.033±0.006	-0.02±0.17	-0.46±0.22
HH 28	04:31:05.25	+18:03:38.3	0.009±0.001	0.29±0.23	-0.12±0.23
RXJ0431.2+1800	04:31:23.98	+18:00:34.7	0.004±0.001	0.83±0.35	0.26±0.26
TAP 39	04:31:25.10	+18:16:32.2	0.116±0.006	0.77±0.04	0.11±0.06
LP 17-744	04:31:37.02	+17:43:01.4	0.049±0.005	-0.35±0.11	-0.24±0.19
XZ/HL Tau	04:31:39.81	+18:14:15.9	0.019±0.002	0.85±0.11	0.27±0.13
RXJ0431.7+1747	04:31:43.37	+17:47:41.9	0.004±0.001	0.97±0.37	0.42±0.24
V710 Tau	04:31:57.52	+18:21:53.1	0.043±0.004	0.99±0.06	0.47±0.09
NTTS 042916+1751	04:32:08.99	+17:57:35.6	0.057±0.004	0.90±0.04	0.17±0.07
LP 415-187	04:32:09.84	+17:40:41.1	0.007±0.002	0.53±0.36	0.25±0.30
RXJ0432.1+1818	04:32:10.91	+18:18:08.6	0.005±0.002	-0.95±0.16	-1.00±0.00
V827 Tau	04:32:14.70	+18:20:30.1	0.102±0.006	0.94±0.03	0.26±0.06
RXJ0432.2+1812	04:32:14.98	+18:12:58.1	0.002±0.001	1.00±0.00	-0.36±0.38
V826 Tau	04:32:15.54	+18:01:50.6	0.156±0.006	0.88±0.02	0.18±0.04
HZ 9	04:32:23.11	+17:45:18.6	0.707±0.015	-0.07±0.02	0.16±0.03
RXJ0432.4+1724	04:32:27.77	+17:24:21.1	0.008±0.002	1.00±0.00	0.70±0.31
Melotte 25 VA674	04:32:28.47	+17:54:25.6	0.014±0.002	-0.43±0.13	-0.17±0.26
RXJ0432.4+1814	04:32:29.51	+18:14:10.6	0.002±0.001	1.00±0.00	0.46±0.32
GG Tau	04:32:30.96	+17:32:20.1	0.007±0.002	1.00±0.00	-0.04±0.27
RXJ0432.6+1809	04:32:40.45	+18:09:30.5	0.003±0.001	0.81±0.45	1.00±0.00
NTTS 042950+1757	04:32:43.31	+18:03:06.5	0.028±0.003	0.98±0.04	0.04±0.10
RXJ0432.7+1853	04:32:44.27	+18:53:38.9	0.009±0.008	0.88±0.92	-0.34±0.42
RXJ0432.8+1735	04:32:53.45	+17:35:56.9	0.008±0.002	1.00±0.00	0.25±0.22
RXJ0432.9+1817	04:32:55.21	+18:17:14.4	0.013±0.003	-0.03±0.51	-0.03±0.63
HD 28867	04:33:32.73	+18:01:11.2	0.362±0.012	0.90±0.02	0.25±0.03
RXJ0433.6+1823	04:33:41.92	+18:23:55.0	0.014±0.003	0.65±0.32	0.25±0.24
RXJ0433.7+1809	04:33:42.82	+18:09:45.4	0.008±0.002	-0.28±0.27	0.43±0.48
RXJ0434.5+1802	04:34:35.81	+18:02:54.0	0.049±0.006	0.90±0.13	0.47±0.11
RXJ0434.6+1842	04:34:41.79	+18:42:44.2	0.044±0.006	0.00±0.00	0.00±0.00
HD 28991	04:34:42.34	+17:45:17.2	0.024±0.005	-0.02±0.23	-0.78±0.28
RXJ0435.4+1831	04:35:24.73	+18:31:16.0	0.055±0.006	0.00±0.00	0.00±0.00
		T Tau			
HD 27406	04:20:13.31	+19:14:18.6	0.086±0.015	-0.86±0.28	1.00±0.00
T Tau	04:21:59.15	+19:32:02.1	0.032±0.007	0.91±0.13	0.40±0.23
RXJ0422.0+1934	04:22:05.06	+19:34:46.6	0.030±0.007	0.80±0.19	0.25±0.26
TAP 32	04:22:07.84	+19:15:08.1	0.087±0.013	-0.55±0.15	-0.33±0.42
QSO 0419+19	04:22:18.75	+19:50:41.5	0.054±0.012	1.00±0.00	0.15±0.24
		AB Aur			
GM Aur	04:55:11.23	+30:22:03.1	0.046±0.006	1.00±0.00	0.17±0.13
LkCa 19	04:55:37.16	+30:17:58.9	0.141±0.010	0.86±0.04	0.13±0.08
AB Aur	04:55:46.39	+30:33:00.9	0.009±0.003	0.15±0.35	-0.32±0.42
HD 31305	04:55:48.01	+30:20:22.4	0.024±0.004	0.78±0.13	0.22±0.19
SU Aur	04:55:59.44	+30:34:01.3	0.201±0.012	0.97±0.02	0.47±0.06
NTTS 045251+3016	04:56:02.11	+30:21:06.8	0.060±0.007	0.65±0.09	-0.19±0.13
RXJ0456.5+3023	04:56:31.91	+30:23:18.4	0.011±0.003	-0.19±0.33	-0.47±0.55
RXJ0457.6+3011	04:57:41.19	+30:11:19.2	0.020±0.006	-1.00±0.00	0.00±0.00