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TRIGONOMETRIC PARALLAXES OF TWENTY-SIX STARS,

DETERMINED BY PHOTOGRAPHY WITH THE 26-INCH McCORMICK REFRACTOR

By CHAS. P. OLIVIER

This is the twelfth list of parallaxes published by the Leander McCormick Observatory (*A. J. Ncs.* 778, 796, 803, 808, 824, 840, 851, 858, 868, 884, and 889.) These stars, making a total of 218 parallaxes, constituted twenty-four per cent of the parallaxes measured at the McCormick Observatory while the writer was a member of the staff.

As usual, in the eighth column of the Table the designation of an asterisk (*) signifies that the value

of the proper motion in right ascension is taken from the *Cincinnati Publications*, No. 18. The last column gives the absolute magnitude. The error of such a magnitude being larger for smaller parallaxes, no decimals in the value of M are given for stars with observed parallaxes less than +0".040. The reduction from relative to absolute parallaxes is taken from the *Publications of the Leander McCormick Observatory*, Vol. IV, p. 280.

No.	Star	R. A.		Decl.	Magnitude and Spectrum	Proper Motion			Parallax		M
		1900.0				Total	Right Ascension		Relative	Absolute	
		h	m				Boss	Observed			
800	<i>Lalande</i> 47231A	0	0.4	+45 16	9.3 K7	}0.858	+0.848*	+0.887	+0.098 = .012	+0.101	+9.3
801	<i>Lalande</i> 47231B	0	0.4	+45 16	9.3 K7		+ .868	+0.091 .007	+0.094	+9.3	
802	<i>BD</i> +44°4548	0	0.4	+45 16	10.2 M2		+ .860	+0.051 .008	+0.054	+8.9	
803	<i>BD</i> +33°256	1	28.8	+34 10	9.1		+ .002	+0.024 .012	+0.028	+6:	
804	<i>BD</i> +55°900	4	27.9	+55 13	8.6 K0	+ .587	+0.106 .012	+0.109	+8.8		
805	<i>Lalande</i> 10797	5	39.2	+37 16	7.3 K0	.706	+ .498*	+ .483	+0.075 .007	+0.078	+6.8
806	ν <i>Orionis</i>	6	1.9	+14 47	4.4 B2	.037	+ .009	+ .005	-.036 .009	-.033	...
807	<i>Cincinnati</i> 821	6	35.1	+24 4	8.0 K2	.34	+ .19 *	+ .212	+0.078 .008	+0.081	+7.5
808	17 <i>Monocerotis</i>	6	41.9	+ 8 9	5.0 K0	.025	- .021	- .011	+0.008 .008	+0.011	+0:
809	δ <i>Monocerotis</i>	7	6.8	- 0 20	4.1 A0	.011	+ .003	+ .006	+0.022 .007	+0.025	+1:
810	6 <i>Canis Minoris</i>	7	24.2	+12 13	4.8 K0	.019	+ .003	- .040	+0.030 .009	+0.033	+2:
811	<i>Lalande</i> 19229	9	43.5	+14 16	8.1 F0	.829	+ .347*	+ .404	+0.035 .010	+0.040	+6.1
812	<i>BD</i> +46°1635	10	25.5	+46 2	8.8 M0	....	....	- .556	+0.044 .014	+0.050	+7.3
813	<i>BD</i> +2°2752	13	53.3	+ 2 43	8.5 G0	....	....	- .041	-0.007 .010	-0.001	...
814	<i>Boss</i> 4048	15	50.2	+20 36	5.8 K5	.083	- .073	- .081	+0.026 .015	+0.031	+3:
815	<i>A.G. Albany</i> 5924	17	42.8	+ 4 59	9.0 K0	.70	- .66 *	- .561	+0.066 .009	+0.069	+8.2
816	<i>A.G. Leipzig</i> 8491	18	21.4	+ 8 44	7.9 G5	.55	- .24 *	- .187	+0.046 .010	+0.049	+6.4
817	<i>A.G. Leipzig</i> 8497	18	21.7	+ 8 34	8.5 G5	.47	- .18 *	- .185	+0.028 .008	+0.031	+6:
818	π <i>Draconis</i>	19	20.2	+65 31	4.6 A2	.045	+ .019	+ .017	+0.028 .008	+0.031	+2:
819	ν <i>Aquilae</i>	19	21.4	+ 0 9	4.9 F0	.011	- .010	+ .004	-0.038 .010	-0.035	....

(81)

No.	Star	R. A.		Decl.		Magnitude and Spectrum	Proper Motion			Parallax		M
		1900.0		1900.0			Total	Right Ascension		Relative	Absolute	
		h	m	°	'			Boss	Observed			
820	ρ <i>Draconis</i>	20	2.3	+67	35	4.7 K0	.052	+ .017	+ .030	-.003 ± .008	.000	....
821	δ <i>Delphini</i>	20	38.8	+14	43	4.5 A5	.056	- .023	- .045	+ .010 .009	+ .013	+ 0:
822	σ <i>Cygni</i>	21	13.5	+38	59	4.3 A0p	.007	- .004	+ .029	-.016 .011	-.013	....
823	<i>RT Lacertae</i>	21	57.4	+43	24	Var. G5	....	.....	+ .076	+ .021 .007	+ .024	....
824	<i>SW Lacertae</i>	22	49.1	+37	23	Var. G5	....	.....	+ .069	+ .012 .008	+ .016	....
825	<i>AOe 23166</i>	23	54.3	-20	35	7.4 K0	.608	+ .519*	+ .483	+ .035 .011	+ .042	+ 5.5

TRIGONOMETRIC PARALLAXES OF FIFTY STARS,

DETERMINED BY PHOTOGRAPHY WITH THE 26-INCH McCORMICK REFRACTOR

BY ALEXANDER VYSSOTSKY AND DIRK REUYL

This is the thirteenth list of parallaxes published by the Leander McCormick Observatory in the *Astronomical Journal*. The construction of the Table, as well as the reduction from relative to absolute parallax, is the same as in the previous list. The only exception is that the value $+0''.002$ was used

for the reduction to absolute parallax for the stars Nos. 827, 860, 863 and 872, for which the comparison stars are of the approximate magnitude 11.5.

In the last column, the initials V, R and k, mean that the plates were measured by A. VYSSOTSKY, D. REUYL and P. VAN DE KAMP, respectively.

No.	Star	R. A.		Decl.		Magnitude and Spectrum	Proper Motion			Parallax		M	Observer
		1900.0		1900.0			Total	Right Ascension		Relative	Absolute		
		h	m	°	'			Boss	Observed				
826	α <i>Andromedae</i>	0	3.2	+28	32	2.2 A0p	0.213	+0.140	+0.112	+ .004 ± .009	+ .008	- 3:	V
827	<i>Wolf 1056</i>	0	33.5	+30	4	11.4 K	1.57	....	+1.544	+ .084 .013	+ .086	+ 11.1	k
828	<i>Lalande 1964</i>	1	2.2	+22	27	8.6 K0	.525	+ .126*	+ .083	+ .040 .009	+ .045	+ 6.9	V
829	<i>BD +54°234</i>	1	4.3	+54	45	10.6 G5	.187	....	+ .171	+ .015 .008	+ .018	+ 7:	R
830	α <i>Ursae Min.</i>	1	22.6	+88	46	2.1 F8	.044	+ .044	+ .027	-.007 .009	-.003	...	V
831	<i>17 Persei</i>	2	45.4	+34	39	4.7 K5	.077	+ .020	- .008	-.007 .009	-.004	....	R
832	<i>Boss 1249</i>	5	9.7	+34	12	5.8 B0p	.029	+ .005	- .040	-.013 .008	-.010	....	R
833	<i>16 Aurigae</i>	5	11.6	+33	17	4.8 K0	.189	+ .069	+ .016	+ .008 .008	+ .011	+ 0:	R
834	τ <i>Aurigae</i>	5	42.3	+39	9	4.6 K0	.036	- .025	- .051	-.019 .008	-.016	....	R
835	<i>Lalande 12348</i>	6	22.9	+27	5	8.7 G5	.50	- .23 *	- .232	+ .028 .009	+ .031	+ 6:	R
836	ν <i>Geminorum</i>	6	23.0	+20	17	4.1 B5	.022	- .008	- .021	+ .015 .009	+ .018	+ 0:	V
837	τ <i>Geminorum</i>	7	4.8	+30	25	4.5 K0	.249	- .024	- .035	-.002 .006	+ .001	- 5:	R
838	γ <i>Canis Min.</i>	7	22.7	+ 9	8	4.6 K0	.064	- .064	- .045	+ .002 .010	+ .005	- 2:	R
839	<i>Lalande 18397</i>	9	16.2	+40	40	7.7 K2	.516	- .346*	- .367	+ .045 .008	+ .050	+ 6.2	R
840	<i>BD +63°869</i>	9	48.8	+63	17	8.5 Ma	.600	...	- .270	+ .057 .006	+ .062	+ 7.5	R
841	<i>Groom 1618</i>	10	5.3	+49	58	6.8 K5p	1.451	- 1.353*	- 1.359	+ .245 .009	+ .250	+ 8.8	V
842	<i>BD +10°2122</i>	10	7.9	+10	4	9.3 K0	.626	....	- .055	-.013 .013	-.008	...	R
843	<i>Groom 1822</i>	11	40.3	+48	14	8.0 G0	.644	- .576*	- .542	-.019 .010	-.013	...	V
844	<i>BD +4°2567</i>	11	58.8	+ 3	54	9.3 G0	.088	- .084*	- .101	+ .020 .008	+ .026	+ 6:	R
845	<i>Lalande 22667</i>	11	59.0	+ 3	55	9.3 G0	.567	+ .080*	+ .048	+ .017 .009	+ .023	+ 6:	R
846	<i>16 Virginis</i>	12	15.3	+ 3	53	5.1 K0	.306	- .296	- .300	+ .002 .009	+ .008	- 0:	R
847	<i>Lalande 24168</i>	12	53.9	- 9	18	7.7 G5	.850	- .828*	- 804	+ .078 .009	+ .083	+ 7.3	V