

# THE ENERGY DISTRIBUTIONS IN SPECTRA OF STARS IN REGION $\lambda\lambda$ 320-750 nm

N.S. Komarov, M.G. Arkhipov, S.I. Belik, E.A. Depenchuk, A.V. Dragunova,  
N.N. Zakozhurnikova, L.E. Kantsen, L.F. Orlova, A.F. Pereverzentsev,  
A.G. Cherkass, R.I. Chuprina

Department of Astronomy, Odessa State University, Odessa 270014 Ukraine

**ABSTRACT.** The original energy distributions in visual region of the spectra of 370 stars were received using the method of electrospectrophotometry.

**Key words:** stars: spectrophotometry, energy distribution

The observations of stellar radiation were received in 70-80 years on observational stations of Odessa Astronomical Observatory - Mayaki (nearly 40 km from Odessa) and on peak Terskol (the Caucasus, height 3100m). The 0.5m- and 0.8m-telescopes were equipped with one-type spectrophotometers. The revision of all data about energy distributions in spectra of stars ( $E_\lambda$ ) was made. The comparison of our data with data received on other observatories was made also. The compilative catalogue of averaged data of the energy distributions in spectra of 555 stars in region  $\lambda\lambda$ 320–1080nm is the result of this work (Dragunova et al., 1994, Komarov et al., 1995).

However the original averaged and individual energy distributions in spectra of stars also are interesting for investigation of various processes in atmospheres of stars and for estimation of stellar parameters. The disquette-recorded catalogue of 370 stars have been made. The list of BS numbers of stars and number of independent determinations of the energy distributions in stellar spectra made on other Observatories is given. The results of observations received by astronomers of astronomical institutes of Moscow, Pulkovo, Alma-Ata, Crimea were attracted. The r.m.s. of our results does not exceed 5%.

Table. The List of catalogue stars (BS numbers).

BS	BS	BS	BS
15	622(2)	1409(4)	1865
21	660	1411	1879
39	664(2)	1412(3)	1899(2)
63(1)	707	1457	1903
114	779	1458	1907(1)
153(2)	804(3)	1463	1910
163(2)	834(1)	1478	1931
165(2)	838(2)	1483	1948(4)
168(2)	896	1497(4)	1998(3)
188(2)	911	1543	2002
219	937(2)	1552	2004(3)
253(1)	984	1556	2047
265(1)	1017(3)	1567	2088
269(2)	1030(3)	1580	2095
334(2)	1038(4)	1601	2108
337	1087	1641(2)	2124
395	1122	1656(3)	2286(1)
402(3)	1131	1666	2356(2)
403	1140	1672	2421
437	1142	1689(1)	2429(1)
458	1149	1698(3)	2443
496	1165	1708	2473(1)
509(1)	1178	1713	2484(3)
542(1)	1203	1729	2491(2)
544(2)	1228	1735(2)	2657
545	1251(2)	1756	2777
553	1273	1784	2845
580(2)	1303	1790(4)	2852
595	1329(2)	1791(4)	2890
603(2)	1346(3)	1834	2943(4)
613(1)	1389(2)	1839(2)	2973
617(2)	1396	1852(3)	2985(1)

Table. (continued)

BS	BS	BS	BS	BS	BS	BS	BS
2990( 4)	4069(2)	4785(1)	5429(1)	6092(2)	6698(3)	7557(4)	8308
3176	4100	4787	5435	6095(1)	6703(1)	7560(2)	8322
3323(2)	4133	4813	5477(2)	6129	6705(1)	7569	8335(2)
3475	4166(1)	4825(3)	5487(3)	6132(2)	6752(1)	7602(1)	8410
3482(2)	4288	4847	5502(2)	6148(3)	6771(3)	7615(1)	8414(4)
3547(2)	4291	4883(2)	5505	6149(2)	6779	7653(1)	8430(2)
3569	4295(2)	4902(1)	5511(3)	6175	6789(1)	7710(3)	8450(2)
3572(1)	4299(1)	4905	5531(2)	6212	6852	7796(3)	8465(3)
3594	4300(1)	4910	5544(2)	6220	6869	7850(1)	8469
3612	4301(2)	4915	5563(2)	6299	6927(2)	7852(2)	8494(2)
3619(1)	4310(1)	4920	5600(1)	6324(2)	7001	7882(4)	8518(3)
3624	4335	4924(1)	5602(1)	6378	7056(1)	7906(2)	8585(2)
3665(2)	4357(4)	4932(2)	5616(1)	6396(3)	7069(1)	7924	8597(2)
3748(3)	4359	4983(1)	5681(1)	6406	7176(2)	7949(4)	8634(2)
3757	4368(1)	5011	5727(1)	6410(1)	7178(2)	7950(3)	8650(3)
3771(1)	4374	5017	5735	6418(2)	7235(2)	7957	8684(3)
3773(1)	4382	5056	5747	6458	7310(2)	7984(1)	8694(2)
3775	4399(1)	5068	5778	6493	7314(2)	7990(2)	8709(3)
3800(1)	4434(1)	5072	5793	6536(3)	7377(4)	8001(2)	8762
3809	4471	5105	5849	6554	7387(2)	8028(2)	8781(4)
3852(2)	4514	5107(2)	5854(3)	6555	7417(3)	8079	8815
3873(3)	4517(2)	5127(2)	5868(1)	6556(3)	7420(3)	8115(3)	8830(1)
3888	4527(1)	5154(2)	5881(4)	6588(1)	7469	8162(3)	8911
3903(1)	4534(2)	5159	5889(2)	6603(3)	7488(1)	8232(3)	8961
3905(2)	4540(4)	5185(2)	5892(2)	6623(2)	7497	8238	8974(3)
3937	4554(4)	5191	5914	6629(3)	7528(3)	8278(3)	
3950(2)	4608(1)	5226	5933(2)				
3975(3)	4660(2)	5235(2)	5968(1)				
3980(1)	4662(2)	5313	5971(2)				
3982(4)	4689(3)	5315(1)	5984				
4031(2)	4716	5338(2)	6018(1)				
4033(2)	4733	5359	6031				
4054	4752	5404(2)	6056(3)				
4057(3)	4757(2)	5409	6075(3)				

## References

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