Model Stellar Atmosphere Net Flux in IUEGO Format

The net flux from model stellar atmospheres that were presented in the paper "Hydrogen Line-Blanketed Model Atmospheres" (Klinglesmith, D.A., NASA SP-3065) along with other unpublished models that have been computed with the same computer code have been converted to the IUEGO type format.

The data has been presented as low dispersion data, i.e. the unit in wavelength is 0.2 $\overset{\circ}{A}$ (IUE Image processing information packet) the wavelength range covered on the "GO" tape is 1016 $\overset{\circ}{A}$ - 6352 $\overset{\circ}{A}$. Along with a table of wavelengths there are tables of the net flux both per unit wavelength, F_λ, and per unit frequency, F_ν, and a table of the Planck function, B_ν, at the electron temperature of the first depth in the model atmosphere. The table of epsilons, ϵ, has been set to zero. The arrays are ordered

$$\lambda, \; \epsilon, \; F_\lambda, \; F_\nu \; \text{and} \; B_\nu$$

thus the F_λ table is equivalent to the Gross spectrum, the F_ν table is equivalent to the Background spectrum and the B_ν table is equivalent to the Net spectrum.

Copies of the tape can be obtained from me if you send me a blank tape and a pre-paid return address label.

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Code 685.2

TABLE I

#	T_{EFF}	Log g	X	Y	#	T_{EFF}	Log g	X	Y
1	10000	2.50	0.01640	0.98360	21	12000	2.50	0.01640	0.98360
2	10000	3.00	0.01640	0.98360	22	12000	3.00	0.01640	0.98360
3	10000	3.50	0.01640	0.98360	23	12000	3.50	0.01640	0.98360
4	10000	4.00	0.01640	0.98360	24	12000	4.00	0.01640	0.98360
5	10000	4.50	0.01640	0.98360	25	12000	4.50	0.01640	0.98360
6	10000	2.50	0.14300	0.85700	26	12000	2.50	0.14300	0.85700
7	10000	3.00	0.14300	0.85700	27	12000	3.00	0.14300	0.85700
8	10000	3.50	0.14300	0.85700	28	12000	3.50	0.14300	0.85700
9	10000	4.00	0.14300	0.85700	29	12000	4.00	0.14300	0.85700
10	10000	4.50	0.14300	0.85700	30	12000	4.50	0.14300	0.85700
11	10000	2.50	0.66667	0.33333	31	12000	2.50	0.66667	0.33333
12	10000	3.00	0.66667	0.33333	32	12000	3.00	0.66667	0.33333
13	10000	3.50	0.66667	0.33333	33	12000	3.50	0.66667	0.33333
14	10000	4.00	0.66667	0.33333	34	12000	4.00	0.66667	0.33333
15	10000	4.50	0.66667	0.33333	35	12000	4.50	0.66667	0.33333
16	10000	2.50	1.00000	0.0	36	12000	2.50	1.00000	0.0
17	10000	3.00	1.00000	0.0	37	12000	3.00	0.99999	0.00001
18	10000	3.50	1.00000	0.0	38	12000	3.50	1.00000	0.0
19	10000	4.00	1.00000	0.0	39	12000	4.00	1.00000	0.0
20	10000	4.50	1.00000	0.0	40	12000	4.50	1.00000	0.0

TABLE I

#	T_{EFF}	Log g	X	Y	#	T_{EFF}	Log g	X	Y
41	14000	2.50	0.01640	0.98360	61	16000	2.50	0.01640	0.98360
42	14000	3.00	0.01640	0.98360	62	16000	3.00	0.01640	0.98360
43	14000	3.50	0.01640	0.98360	63	16000	3.50	0.01640	0.98360
44	14000	4.00	0.01640	0.98360	64	16000	4.00	0.01640	0.98360
45	14000	4.50	0.01640	0.98360	65	16000	4.50	0.01640	0.98360
46	14000	2.50	0.14300	0.85700	66	16000	2.50	0.14300	0.85700
47	14000	3.00	0.14300	0.85700	67	16000	3.00	0.14300	0.85700
48	14000	3.50	0.14300	0.85700	68	16000	3.50	0.14300	0.85700
49	14000	4.00	0.14300	0.85700	69	16000	4.00	0.14300	0.85700
50	14000	4.50	0.14300	0.85700	70	16000	4.50	0.14300	0.85700
51	14000	2.50	0.66667	0.33333	71	16000	2.50	0.66667	0.33333
52	14000	3.00	0.66667	0.33333	72	16000	3.00	0.66667	0.33333
53	14000	3.50	0.66667	0.33333	73	16000	3.50	0.66667	0.33333
54	14000	4.00	0.66667	0.33333	74	16000	4.00	0.66667	0.33333
55	14000	4.50	0.66667	0.33333	75	16000	4.50	0.66667	0.33333
56	14000	2.50	1.00000	0.0	76	16000	2.50	1.00000	0.0
57	14000	3.00	0.99999	0.00001	77	16000	3.00	1.00000	0.0
58	14000	3.50	1.00000	0.0	78	16000	3.50	1.00000	0.0
59	14000	4.00	0.99999	0.00001	79	16000	4.00	1.00000	0.0
60	14000	4.50	1.00000	0.0	80	16000	4.50	1.00000	0.0

#	T_{EFF}	$\log g$	X	Y	#	T_{EFF}	$\log g$	X	Y
81	18000	2.50	0.01640	0.98360	101	20000	2.50	0.01640	0.98360
82	18000	3.00	0.01640	0.98360	102	20000	3.00	0.01640	0.98360
83	18000	3.50	0.01640	0.98360	103	20000	3.50	0.01640	0.98360
84	18000	4.00	0.01640	0.98360	104	20000	4.00	0.01640	0.98360
85	18000	4.50	0.01640	0.98360	105	20000	2.50	0.14300	0.85700
86	18000	2.50	0.14300	0.85700					
87	18000	3.00	0.14300	0.85700	107	20000	3.00	0.14300	0.85700
88	18000	3.50	0.14300	0.85700	108	20000	3.50	0.14300	0.85700
89	18000	4.00	0.14300	0.85700	109	20000	4.00	0.14300	0.85700
90	18000	4.50	0.14300	0.85700	110	20000	4.50	0.14300	0.85700
91	18000	2.50	0.66667	0.33333	111	20000	2.50	0.66667	0.33333
92	18000	3.00	0.66667	0.33333	112	20000	3.00	0.66667	0.33333
93	18000	3.50	0.66667	0.33333	113	20000	3.50	0.66667	0.33333
94	18000	4.00	0.66667	0.33333	114	20000	4.00	0.66667	0.33333
95	18000	4.50	0.66667	0.33333	115	20000	4.50	0.66667	0.33333
96	18000	2.50	1.00000	0.0	116	20000	2.50	1.00000	0.0
97	18000	3.00	1.00000	0.0	117	20000	3.00	1.00000	0.0
98	18000	3.50	1.00000	0.0	118	20000	3.50	1.00000	0.0
99	18000	4.00	1.00000	0.0	119	20000	4.00	1.00000	0.0
100	18000	4.50	1.00000	0.0	120	20000	4.50	1.00000	0.0

TABLE II

#	T_{eff}	Log g	X	Y		#	T_{eff}	Log g	X	Y
1	25000	3.00	0.66667	0.33333		31	25000	4.00	0.75000	0.25000
2	25000	3.50	0.66667	0.33333		32	30000	3.00	0.75000	0.25000
3	25000	4.00	0.66667	0.33333		33	30000	3.50	0.75000	0.25000
4	25000	4.50	0.66667	0.33333		34	30000	4.00	0.75000	0.25000
5	30000	3.00	0.66667	0.33333		35	30000	4.50	0.75000	0.25000
6	30000	3.50	0.66667	0.33333		36	35000	4.00	0.75000	0.25000
7	30000	4.00	0.66667	0.33333		37	35000	4.50	0.75000	0.25000
8	30000	4.50	0.66667	0.33333		38	25000	3.00	0.85000	0.15000
9	35000	4.00	0.66667	0.33333		39	25000	3.50	0.85000	0.15000
10	35000	4.50	0.66667	0.33333		40	25000	4.00	0.85000	0.15000
11	40000	3.50	0.66667	0.33333		41	25000	4.50	0.85000	0.15000
12	40000	4.00	0.66667	0.33333		42	30000	3.00	0.85000	0.15000
13	40000	4.50	0.66667	0.33333		43	30000	3.50	0.85000	0.15000
14	14000	2.00	0.66667	0.33333		44	30000	4.00	0.85000	0.15000
15	12000	2.00	0.66667	0.33333		45	25000	4.50	0.75000	0.25000
16	22500	3.50	0.66667	0.33333		46	25000	4.00	1.00000	0.50000
17	10000	2.00	0.66667	0.33333		47	15000	4.00	0.66667	0.33333
18	22500	3.00	0.66667	0.33333		48	13000	3.50	0.66667	0.33333
19	25000	3.00	0.75000	0.25000		49	13000	3.00	0.66667	0.33333
20	30000	4.50	0.85000	0.15000		50	15000	3.00	0.66667	0.33333
21	35000	4.00	0.85000	0.15000		51	15000	3.50	0.66667	0.33333
22	35000	4.50	0.85000	0.15000		52	11000	4.50	0.66667	0.33333
23	25000	3.50	1.00000	0.50000		53	11000	3.50	0.66667	0.33333
24	25000	4.50	1.00000	0.50000		54	11000	4.00	0.66667	0.33333
25	30000	3.50	1.00000	0.50000		55	13000	4.00	0.66667	0.33333
26	30000	4.00	1.00000	0.50000		56	13000	4.50	0.66667	0.33333
27	30000	4.50	1.00000	0.50000		57	15000	4.50	0.66667	0.33333
28	35000	4.00	1.00000	0.50000						
29	35000	4.50	1.00000	0.50000						
30	25000	3.50	0.75000	0.25000						