62 65 102 - Eggen - 1967

Narrow-band photometry for K-M giants. TiO intensity.

GENERAL INFORMATION

AUTHORS	O. J. Eggen
TELESCOPE	0.50m and 1.52m (reflectors), Mount Wilson Obs.
DETECTOR	RCA 7102
MAIN ARTICLE	Eggen, O 1967, ApJS 14, 307

SYSTEM DESCRIPTION

BANDS DESCRIPTION [93]				
band	λ_c (Å)	feature	*WHM* (Å)	λ_c (Å)
62	6250	TiO	266	6235
65	6500	continuum	272	6505
102	10200	continuum	320	10185

All filter are interference Baird Atomic type “B”.

SYSTEM ANALYSIS

REDDENING RATIOS [93]

$E(102–65) \,/\, E(B-V) \;=\; 1.25$ $\qquad$ $A(102) \,/\, E(102–65) \;=\; 1.5$

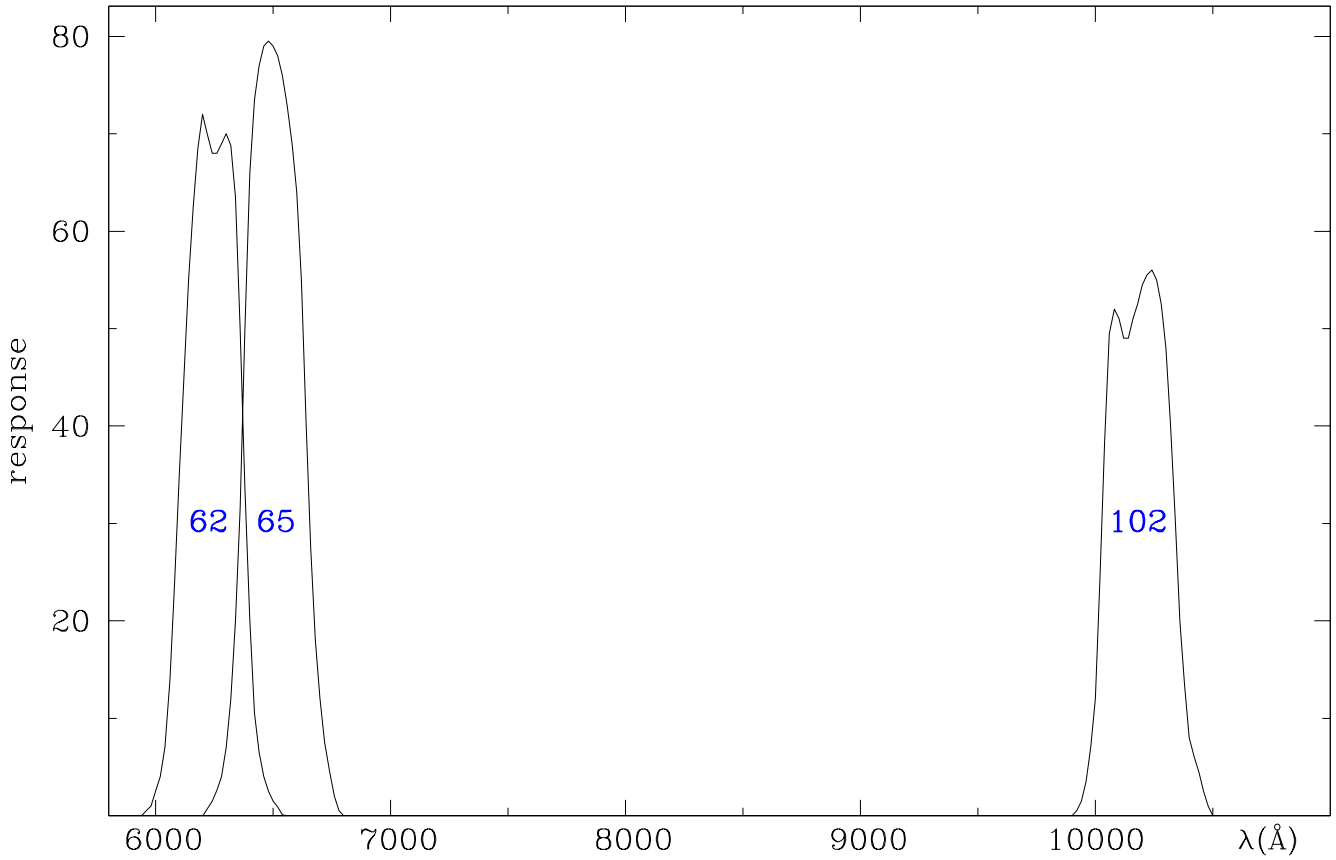
where $E(B-V)$ is the color excess in the *UBV - Johnson and Morgan - 1953* system.

RELATIONS WITH OTHER SYSTEMS [93]

UBVRI(JHKLMN) - Johnson - 1965

$102 \;=\; I + 0.15$

TRANSMISSION CURVES [211]



62				*65*				*102*			
λ (Å)	ϒ (%)	λ (Å)	ϒ (%)	λ (Å)	ϒ (%)	λ (Å)	ϒ (%)	λ (Å)	ϒ (%)	λ (Å)	ϒ (%)
5940	0.0	6260	68.0	6200	0.0	6520	78.0	9900	0.0	10220	55.5
5960	0.5	6280	69.0	6220	0.7	6540	76.0	9920	0.5	10240	56.0
5980	1.0	6300	70.0	6240	1.5	6560	73.0	9940	1.5	10260	55.0
6000	2.5	6320	68.8	6260	2.6	6580	69.0	9960	3.5	10280	52.5
6020	4.0	6340	63.5	6280	4.0	6600	64.0	9980	7.0	10300	48.0
6040	7.0	6360	50.0	6300	7.0	6620	55.0	10000	12.0	10320	40.0
6060	14.0	6380	34.0	6320	12.0	6640	40.5	10020	24.5	10340	30.5
6080	24.0	6400	20.0	6340	20.0	6660	27.5	10040	38.5	10360	20.0
6100	35.0	6420	10.5	6360	31.5	6680	18.0	10060	49.5	10380	13.5
6120	45.0	6440	6.5	6380	49.5	6700	12.0	10080	52.0	10400	8.0
6140	55.0	6460	4.0	6400	66.0	6720	7.5	10100	51.0	10420	6.0
6160	62.5	6480	2.5	6420	73.5	6740	4.5	10120	49.0	10440	4.5
6180	68.5	6500	1.5	6440	77.0	6760	2.0	10140	49.0	10460	2.5
6200	72.0	6520	0.9	6460	79.0	6780	0.5	10160	51.0	10480	1.0
6220	70.0	6540	0.1	6480	79.5	6800	0.0	10180	52.5	10500	0.0
6260	68.0	6560	0.0	6500	79.0			10200	54.5		