Hα - Strauss and Ducati - 1981

Hα photometry.

GENERAL INFORMATION

AUTHORS	F. M. Strauss and J. R. Ducati
TELESCOPE	0.50m (reflector), Universidade Federal do Rio Grande do Sul, Brazil
DETECTOR	9658 AR (S-20 cathode, refrigerated)
MAIN ARTICLE	Strauss, F. M., Ducati, J.R. 1981, A&AS 44, 337

SYSTEM DESCRIPTION

BANDS DESCRIPTION [292]

band	λ_{peak} (Å)	bandwith (Å)	Υ_{peak} (%)
Hα narrow	6563	37	84
Hα wide	6563	208	84

SYSTEM ANALYSIS

COLOR INDICES AND PARAMETERS [292]

The β index is taken from the *uvbyH*β - *Strömgren and Crawford* - 1956

$x = \beta - 0.4\,\alpha$: depends on spectral type. Separates quite well early ($\leq$ A0) from late ($>$ A0) supergiants.

$y = \beta - 2.18\,\alpha$: correlates with luminosity class for B supergiants. Emission line indicator.

RELATIONS WITH OTHER SYSTEMS [292]

H_α - Andrews - 1968

$R_\alpha = 1.40\ (\pm 0.09)\ \alpha - 1.6\ (\pm 0.2)$ for 17 stars in common

Hα, β, γ - Feinstein - 1974

$\alpha_{Feinstein} = 0.33\ (\pm 0.03)\ \alpha + 0.8\ (\pm 0.1)$ for 26 stars in common

Hα - Dachs and Schmidt-Kaler - 1975

$\alpha_{D\&S-K} = 1.46\ (\pm 0.04)\ \alpha + 0.3\ (\pm 0.1)$ for 27 stars in common