

POLE-EQUATOR- I) DIFFERENCE AND) THE VARIABILITY OF THE BRIGHTNESS OF THE
CHROMOSPHERIC CaII -K- NETWORK ELEMENTS IN QUIET REGIONS OVER THE SOLAR CYCLE

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Abstract : The dependence of the brightness of chromospheric network elements on latitude was investigated for quiet solar regions. We have used the calibrated photographic CaII K-spectroheliograms of Kodai kanal Observatory for the period 1958-1983 to compare the variation in brightness at the center of the disc with higher latitude (40-45 degrees) of chromospheric network elements in a quiet region as a function of solar activity. We found that there is no significant difference in brightness between the center of the solar disc and higher latitude. In other words, the brightness of the chromospheric network elements in a quiet region does not depend on the latitude but the variation in the intensity enhancement is highly related with solar activity.