FP16 Frequencies of CP2 stars in open clusters and galactic field

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The Michigan Catalogue (Vol. I - V) is a good database to study the distribution of CP2 stars in the galactic field on the southern hemisphere. A cross check with the Bidelman-Catalogue (1973) and the "Catalogues Général des Étoiles Ap et Am" from Renson (1991) let us find out, that in this catalogue 3.6% of all stars in the relevant spectral regions are CP2 stars. Any discrepant classified stars could be verified photometrically in the Δa -system. The distribution of CP2 does not show anys preferred region on the southern hemisphere.

The ages of these stars and an evolutionary dependence of the CP2 effect was an other important question. We can show that CP2 stars exist on the whole main sequence.

8 F: Chemically peculiar stars