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STATISTICAL STUDY OF AXIAL ROTATION IN A TYPE STARS WITH NEW DETERMINATION OF $v \sin i$

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We have observed all A type stars of the southern hemisphere brighter than 6.5 mag in order to perform statistical studies of axial rotation. The spectra were obtained at the 2.15 m telescope at CASLEO. We have used the method of Diaz et al. (2011) to calculate axial rotation velocities.

Figure 1 shows the distribution of stars by spectral type including 66 Am and 42 Ap stars. Preliminary results for A6-A9 interval and the comparison with $<v \sin\ i>$ values from Royer et al. (2002, 2007) for a few common stars are shown in Figures 2 and 3. The last figure does not include Ap and Am stars.

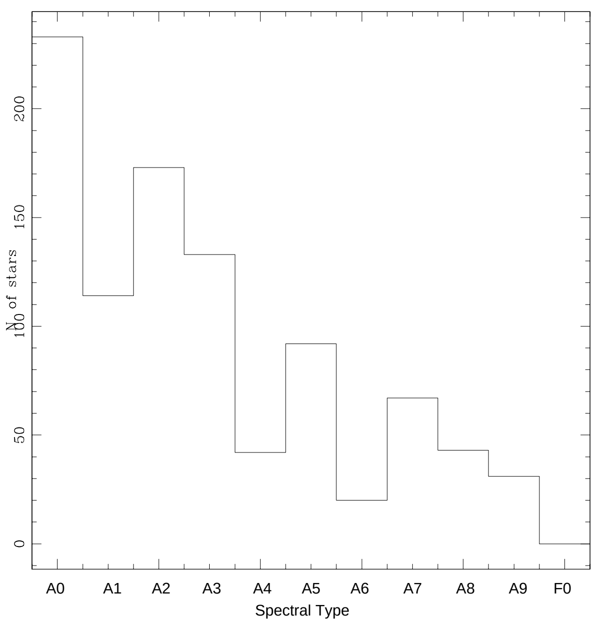

Fig. 1. Distribution of Spectral Type for the programme stars.

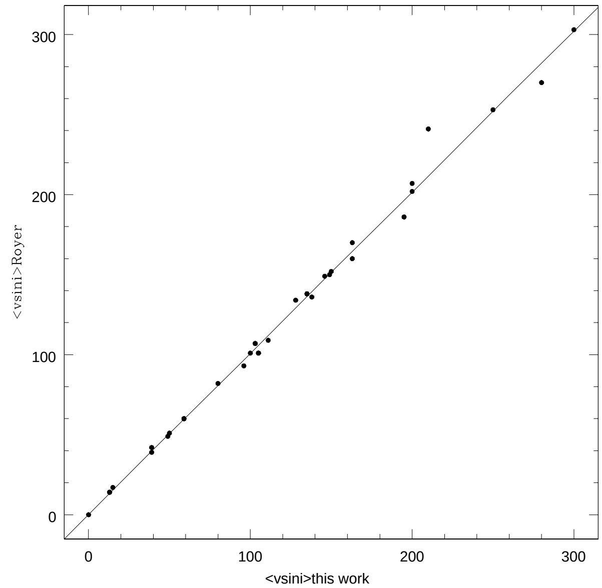

Fig. 2. Comparison with $<v \sin\ i>$ values from Royer.

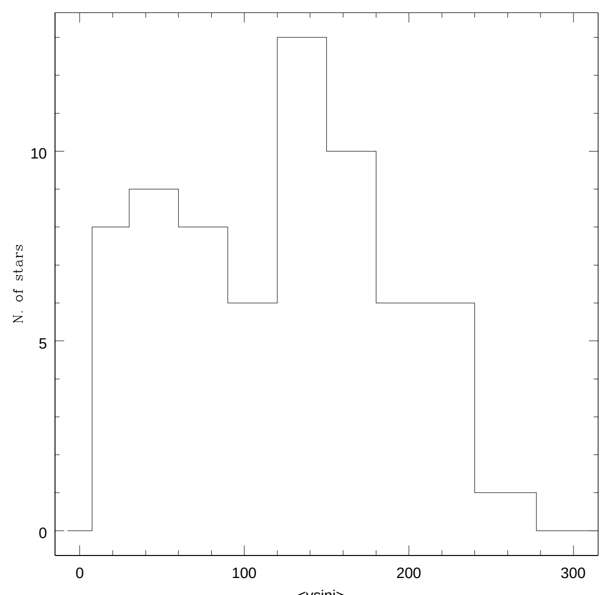

Fig. 3. Distribution of $<v \sin\ i>$ values for this work.

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