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THE PROPER MOTION OF THE AGK3 VARIABLE STARS. III:

RX Peg

This is the third note on a program conducted to check the proper motion of the AGK3 red variable stars which seem to be affected by systematic errors (Stephenson 1978). On the previous notes, CR Gem = AGK3 +16 639 (Lopez 1986) and SS Vir = AGK3 +1 1462 (Lopez and Cesco 1986) were discussed. The case of RX Peg = AGK3 +22 2375 = BD +22° 4508 = HD 208526 is herein presented.

The first-epoch position is based on the published material of the Paris Astrographic Catalogue (AC) where RX Peg was identified with object 148 on plate 314 (zone +22 degrees and epoch 1892.75). The second-epoch position has been obtained from a new plate (epoch 1986.50) taken with the Double Astrograph of El Leoncito Station. Both plates were treated in the same way and reduced using the surrounding AGK3 stars as a reference system. The mean error for the AC plate is  $\pm 0''.38$  in  $\alpha$  and  $\pm 0''.33$  in  $\delta$ , whereas for the new position it is  $\pm 0''.26$  in both  $\alpha$  and  $\delta$ .

The resulting annual proper motion is:

$$\mu\alpha\cos(\delta) = -0''.007 \pm 0''.005 \text{ (me)}; \mu\delta = -0''.002 \pm 0''.004 \text{ (me)}$$

The values quoted in the AGK3 are:

$$\mu\alpha = -0''.033 \text{ and } \mu\delta = -0''.270$$

Our result is in agreement with Palmer's (1945) determination, thus confirming that the values quoted in the AGK3 are in error.

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