

63. A bivariate sampling experiment.

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A bivariate normal sample of size 1,200 has been constructed having the parameters : Mean  $(\alpha_x)=0, (\alpha_y)=0$ ; Standard Deviations  $\delta_x=1, \delta_y=5$ . These have been utilized to obtain an experimental test of the theoretical frequency distributions of (i) the standard deviation, (ii) correlation coefficient of  $(r)$ , (iii) Fisher's z-transformation of  $(r)$ , (iv) regression coefficient, and (v)  $x$ -test of the ratio of variances, all based on  $n=5$ . Further tests are in progress.