no influence in vitiating the results arrived at by me, as the results for the other observers do not depend in the least on the value assigned by me to Mr. Thackeray's personal equation. At the same time I would remark that in my paper I point out that the results for Mr. Downing, and more especially for Mr. Thackeray, rest on so few observations that they must be considered uncertain.

Mr. Dunkin, in the concluding paragraph of his Note, gives the results of his determination of the personal equations of Messrs. Lynn, Downing and Thackeray, as compared with Mr. Criswick for the three years 1877 and 1878, derived from data inaccessible to me. Assuming Mr. Criswick's error to have remained unaltered, these results transformed into my own standard show that the personal equations of Mr. Downing and Mr. Thackeray have changed since 1876. The correction to be applied to the mean of the observations of both limbs, in order to reduce Mr. Downing's and Mr. Thackeray's observations to my standard is given in the following table together with those derived from the data supplied by Mr. Dunkin.

	1875	1876	1877	1878
	s	s	s	s
Mr. Downing	= -0.086	-0.097	+0.033	-0.017
Mr. Thackeray	= -0.108	-0.130	-0.033	-0.098
Mean effect on year	-0.057	-0.054	+0.020	-0.020

The mean effect on the year is derived by referring the personal equations to the standard adopted by me and taking into account the number of observations made by each observer. The above results show that the change in the personal equations will produce an apparent diminution of the tabular error of the Moon amounting to about 1".2 in 1877 and 0".6 in 1878. Now, this is exactly what is shown by the observations, the apparent decrease in the tabular errors for these years being 1".3 for 1877 and 0".9 for 1878, taking into account the effect of the apparent decrease in the tabular error due to the change in the nature of the systematic errors of long and short period. So far, therefore, from the results given by Mr. Dunkin invalidating the conclusions arrived at in my paper they tend to strongly confirm them.

Supplementary Note on the Changes in the Error of Hansen's Lunar Tables. By W. T. Lynn, B.A.

This Note is simply a supplement to the paper printed at page 82 of the present volume (*Monthly Notices* for December 1879), giving the completion of the mean errors in longitude up to the end of last year, as deduced from the Altazimuth observations. And, at the close of my superintendence of that instru-

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