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# LXX. Additional note on ludlamite

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block is insulated from the spring, which carries it, but is connected with the point B. The interval elapsing between the breaking contact at  $m$  and the making at  $n$  is, and must be, utterly inappreciable. For the shortest practicable interval is sufficient to allow the currents to adjust themselves, unless  $a$  and  $b$  are extravagantly large resistances; and if it is not exceedingly short, disturbances will occur due to variations in the battery.

The diagrams purposely show the galvanometer, and not the condenser, connected with the breaking-key  $n$ , because leakage of the condenser is sure to occur to some extent when its circuit is broken, and, in order that this may not in the least signify, one terminal of the galvanometer must be insulated.

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LXX. *Additional Note on Ludlamite.*

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THE column of calculated angles incorporated in my notice of Ludlamite is vitiated by an error traceable to the erroneous reading of a figure in the calculation of one of the fundamental angles; and a consequent revision, at somewhat greater leisure, of the relative weights to be attached to the measurements of the different angles on the various crystals, has enabled me to offer a closer approximation to the true elements of Ludlamite than I was able to give at the time the measurements were published. The subjoined data therefore present a better theoretical representation of the crystallography of Ludlamite than that published in the Philosophical Magazine of January last.

System oblique, the elements of the crystal being

$$101.100 = 42^\circ 46', \quad 111.010 = 36^\circ 37',$$

$$101.001 = 36^\circ 41';$$

otherwise,  $a : b : c = 1 : 0.4439 : 0.8798$ .

$$\eta = 100^\circ 33'; \text{ i. e. the axial angle } ZX = 79^\circ 27'.$$

$\begin{bmatrix} ac = 79^\circ 27' \\ cd = 45^\circ 53' \\ da' = 54^\circ 40' \\ at = 26^\circ 49\frac{1}{2}' \\ ka' = 31^\circ 56\frac{1}{2}' \end{bmatrix}$	$\begin{bmatrix} am = 65^\circ 41\frac{1}{2}' \\ mm' = 48^\circ 37' \end{bmatrix}$	$\begin{bmatrix} cm = 85^\circ 40\frac{2}{3}' \\ cq = 68^\circ 31' \\ cp = 61^\circ 25\frac{1}{2}' \\ cr = 44^\circ 36\frac{1}{2}' \end{bmatrix}$
$\begin{bmatrix} ap = 64^\circ 1' \\ al = 85^\circ 12\frac{3}{4}' \\ lq = 22^\circ 30\frac{3}{4}' \\ qa' = 72^\circ 17\frac{1}{3}' \end{bmatrix}$	$\begin{bmatrix} qq' = 63^\circ 28\frac{1}{2}' \\ dq = 58^\circ 15\frac{3}{4}' \\ pn = 53^\circ 23' \end{bmatrix}$	$\begin{bmatrix} kq = 60^\circ 58\frac{1}{2}' \\ km = 110^\circ 27' \\ cl = 62^\circ 50' \end{bmatrix}$

\* Communicated by the Author.