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CORRIGENDUM TO MY PAPER

"A PROPOSITIONAL CALCULUS INTERMEDIATE BETWEEN THE MINIMAL CALCULUS AND THE CLASSICAL"

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Dr. R. A. Bull has pointed out to me that a step in the proof of theorem 2 of my paper, 'A propositional calculus intermediate between the minimal calculus and the classical' (this *Journal*, vol. 7 (1966), pp. 353-358) is fallacious. What I was entitled to infer from [iv] and $-A_1 \ldots -A_n \vdash S$ is that S is derivable from all formulae

$$-C_i \vee . - -C_j \supset C_j \quad ,$$

where $C_1 \ldots C_{m+n}$ are $A_1 \ldots A_n, B_1 \ldots B_m$. Thus S is provable in **MCC** if $\bar{q} \vee . \bar{\bar{p}} \supset p$ is.

The text shows $\vdash \bar{p} \vee . \bar{\bar{p}} \supset p$, and $\vdash \bar{\bar{\bar{p}}} \vee . \bar{\bar{p}} \supset p$ by ax. 10. Hence $\vdash \bar{p} \wedge \bar{\bar{\bar{p}}} .\vee. \bar{\bar{p}} \supset p$. But $\vdash \bar{\bar{\bar{p}}} \supset . \bar{p} \supset \bar{q}$ in **MC**. Hence $\vdash \bar{q} \vee . \bar{\bar{p}} \supset p$, q.e.d.

Similarly, to justify the claim on p. 358 that every intutionistically valid and pseudo-valid formula S is provable in **MC** $+ \bar{p} \vee : \bar{p} \supset . p \supset q$, it is necessary to show $\bar{r} \vee : \bar{p} \supset . p \supset q$ provable in that system. We have $\vdash -(s \supset s) \vee . - (s \supset s) \supset q$ and hence

$$\vdash r \supset - (s \supset s) .\vee: p \supset - (s \supset s) .\supset. p \supset q.$$

But $\bar{r} \equiv . r \supset -(s \supset s)$ and $\bar{p} \equiv . p \supset -(s \supset s)$ are provable in **MC**.

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