

Errata to the paper

“A theory of propositional types”, by L. Henkin

Fundamenta Mathematicae 52 (1963), p. 323-344.

p. 327₁₅, formula 4.5 should read:

4.5. We let $\rightarrow = (\lambda x_0 (\lambda y_0 ((x_0 \wedge y_0) \equiv x_0)))$ and $\vee = (\lambda x_0 (\lambda y_0 ((\neg x_0) \rightarrow y_0)))$.

p. 328₇ should read:

$\iota_{(\alpha\beta)(0(\alpha\beta))} = \lambda f_{0(\alpha\beta)} \cdot \lambda x_\beta \cdot \iota y_\alpha \cdot (\exists! z_{\alpha\beta} (f_{0(\alpha\beta)} z_\beta)) \wedge (\forall z_{\alpha\beta} (f_{0(\alpha\beta)} z_{\alpha\beta} \rightarrow (z_{\alpha\beta} x_\beta \equiv y_\alpha)))$.

p. 328₁ and p. 329^{2,7,9}: z_β should be replaced by $z_{\alpha\beta}$.

p. 329₁₈ should read:

$f^n = [\lambda x_\beta \cdot \iota z_\alpha \cdot [(x_\beta \equiv y_1^n) \wedge (z_\alpha \equiv (fy_1)^n)] \vee \dots \vee [(x_\beta \equiv y_q^n) \wedge (z_\alpha \equiv (fy_q)^n)]]$.

p. 329₁₀ should read:

$\forall ([\iota z_\alpha \cdot [(x_\beta \equiv y_1^n) \wedge (z_\alpha \equiv (fy_1)^n)] \vee \dots \vee [(x_\beta \equiv y_q^n) \wedge (z_\alpha \equiv (fy_q)^n)]] , \varphi) = (fy_i)$,

p. 332⁸: the symbol \neq should be replaced by the symbol \equiv .

p. 338¹⁵ should read: by predicate logic from Axiom 5.

p. 338₆: E^4 should be replaced by E^3 .
