

NOTATION

| | | | | | |
|--|----|---|--------|--|-----|
| L_A | 5 | $\Gamma(x)$ | 18 | $\llcorner_{\cap}, \llcorner_{\cup}$ | 96 |
| $0, S, +, \times$ | 5 | $\text{Sat}_{\Gamma}(x,y), \text{Tr}_{\Gamma}(x)$ | 18 | $a + \sigma$ | 97 |
| N | 5 | $\text{Sat}_{B_n}(x,y)$ | 18 | CON_{Γ} | 98 |
| $:=$ | 5 | $X \mid k$ | 18 | \cup, \cap | 99 |
| $T + \varphi, T + X$ | 6 | Π_n^0, Σ_n^0 | 20 | $[a,b], [a,b), \text{etc.}$ | 100 |
| \vdash, \dashv | 6 | φ^i | 25 | $d(\varphi), d(X)$ | 102 |
| $\text{Th}(T)$ | 6 | $\text{Ref}(T)$ | 35 | \llcorner | 102 |
| N | 6 | X^c | 44 | $\sigma, \sigma_0, \dots, \pi, \pi_0, \dots$ | 102 |
| PA | 6 | $F, P, P(\langle \varphi_k: k < \omega \rangle),$ | | $\Phi(B_n, \Delta_n, \Gamma, \Pi_n,$ | |
| Q | 6 | $P(\xi)$ | 45 | $\Sigma_n)$ | 102 |
| $x \leq y, x < y$ | 6 | \neg_p | 50, 55 | E_T | 106 |
| $\delta_f(x_0, \dots, x_n, y)$ | 7 | Rfn_S | 52 | F_T | 106 |
| $\exists x \leq y, \forall x \leq y, \exists x < y,$ | | RFN_S | 52 | $\llcorner \llcorner$ | 106 |
| $\forall x < y$ | 8 | $\text{Prf}_{S,\Gamma}(x,y),$ | | G_T | 108 |
| PR | 8 | $\text{Pr}_{S,\Gamma}(x)$ | 52, 53 | $t^{-1}(T)$ | 119 |
| $\langle x,y \rangle$ and $(x)_y,$ | | $\text{Con}(n,S), \text{Con}_S^{\omega}$ | 54 | \leq^r, \leq^{er} | 120 |
| $\langle k,m \rangle$ and $(k)_m$ | 9 | $\text{Rfn}(n,S), \text{Rfn}_S^{\omega}$ | 55 | L_{ST}, ZF | 120 |
| P_m | 9 | \neg_{Π_1} | 55 | t_s | 120 |
| $S, S_0, T, T', A, B \text{ etc.}$ | | RFN_{τ} | 59 | $v_n(x)$ | 121 |
| (convention) | 11 | $[\Gamma]_S(x,y)$ | 63 | $H_k, H_k(x)$ | 121 |
| T (convention) | 11 | \neg_{Γ} | 63 | $\text{Tr}_k(x)$ | 121 |
| Σ_n, Π_n | 11 | $[\Gamma](x,y)$ | 63 | RFN_S^t | 121 |
| $B_n, \Gamma, \Gamma^+, \Gamma^d$ | 11 | $\text{Cons}(\Gamma, T)$ | 68 | $\Sigma_k^{ST}, \Pi_k^{ST}$ | 121 |
| Φ, Φ^T | 11 | $t, \mu_t(x)$ | 75 | GB | 124 |
| Δ_n | 11 | $t: S' \leq S$ | 75 | | |
| Sbst_k | 13 | $\leq, <$ | 76 | | |
| Subst_k | 13 | Hcm_{ξ} | 79 | | |
| $\xi(\dot{x}), \eta(\dot{x}, \dot{y})$ | 13 | \equiv | 83 | | |
| $\text{Prf}_{\sigma}(x,y)$ | 13 | $\text{Int}_{A,B}$ | 84 | | |
| $\text{Pr}_{\sigma}(x), \text{Con}_{\sigma}$ | 13 | \leq | 84 | | |
| \perp | 13 | \approx | 87 | | |
| $\sigma \mid y, \sigma + y$ | 13 | $\leq, d(A), D_T, \mathbf{D}_T$ | 94 | | |
| $\text{Prf}_S(x,y), \text{Pr}_S(x),$ | | $A^T, \downarrow, \uparrow, \vee$ | 94 | | |
| $\text{Cons}_S, \text{Prf}_{S+z}(x,y),$ | | \cap, \cup | 94 | | |
| $\text{Prf}_{S \mid z}(x,y)$ | 13 | $0_T, 1_T$ | 95 | | |