

Foundations - type theory

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1 Deductive system

1.1 Contexts

Definition 0.1. We will note \cdot for the empty context

Axiom 0.1. empty derivation : $rule_empty_derivation : \epsilon \text{ --- } empty_context\ ctx$

Axiom 0.2. context extension : $rule_context_extension : context_gamma \vdash var_A : Type_i \text{ --- } context_var_A\ ctx, var_x \text{ not in } dom(context_gamma)$