

Foundations - type theory

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1 Deductive system

1.1 Contexts

Definition 0.1. We will note $.$ for the empty context

Axiom 0.1. empty derivation : $rule_empty_derivation : \epsilon \longrightarrow empty_context\ ctx$

Axiom 0.2. context extension : $rule_context_extension : \Gamma \vdash A : \mathcal{U}_i \longrightarrow \Gamma, x : A\ ctx, x\ not\ in\ dom(\Gamma)$