

# A GENERAL SUBJECT REDUCTION FOR PURE TYPE SYSTEMS

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## 1. THE SIMPLY-TYPED $\lambda$ -CALCULUS

**Definition 1.1.**

**Lemma 1.2.**

**Theorem 1.3** (Subject Reduction for  $\lambda_{\rightarrow}$ ).

## 2. THE POLYMORPHIC $\lambda$ -CALCULUS: SYSTEM **F**

**Definition 2.1.**

**Lemma 2.2.**

**Theorem 2.3** (Subject Reduction for **F**).

## 3. DEPENDENT TYPES: $\lambda\mathbf{P}$

**Definition 3.1.**

**Lemma 3.2.**

**Theorem 3.3** (Subject Reduction for  $\lambda\mathbf{P}$ ).

## 4. THE $\lambda$ -CUBE AND BEYOND: PURE TYPE SYSTEMS

**Definition 4.1.**

**Lemma 4.2.**

**Theorem 4.3** (Subject Reduction for Pure Type Systems).

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