Principles of Programming Languages

Module M10: Quantum Lambda Calculus

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Quantum Lambda Calculus

Source:

- Quantum Lambda Calculus, Peter Selinger & Benoˆıt Valiron, 2008
- A Lambda Calculus for Quantum Computation, 2003
- A Lambda Calculus for Quantum Computation, 2003
- Quantum programming, Wikipedia

- Imperative Languages
  - Lifted Domains
- Language + Assignment
- Programs are Functions
- Interactive File Editor
- Dynamically Typed Language (with IO)
- Recursive Definitions
- Language with
  - Contexts
  - Block Structured Language
  - Applicative Language
- Summary