



A 2nd Year Report Presentation

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March 25, 2009



Outline

Introduction to Meta* and Poly*

- Introduction to Meta*

- Encoding a Process Calculus in Meta*

- Introduction to Poly*

Brief Overview of the 2nd Year's Work

Important Extensions of Meta*/Poly*

- Problem Description

- Introduction of Basic Names



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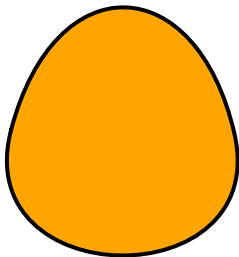
Introduction of Basic Names



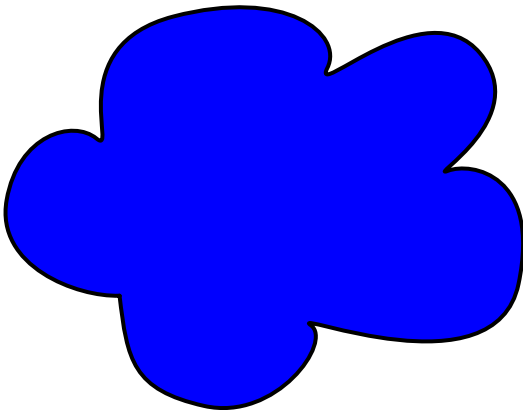
Using Meta*

PC

some Process Calculus



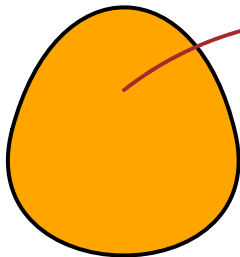
Meta*



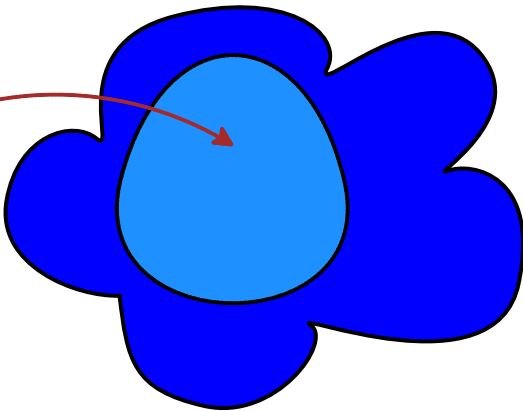


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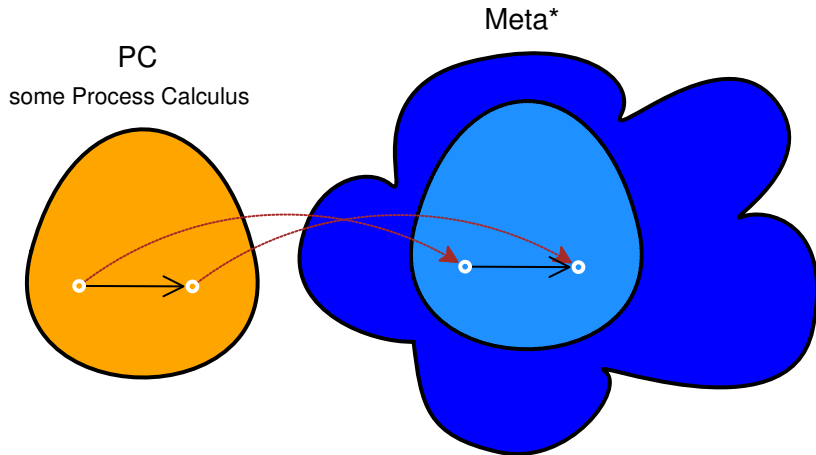


Meta*





Preservation of the Rewriting Relation

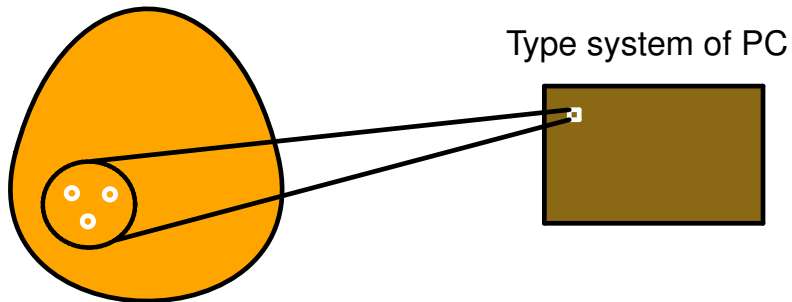




Type Systems

PC

some Process Calculus

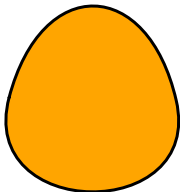




Embedding of a Type System in Poly*

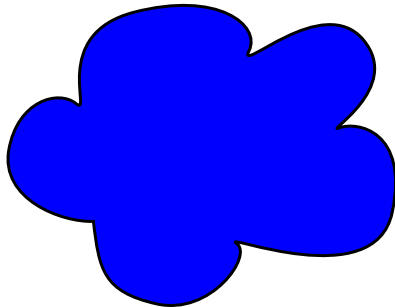
PC

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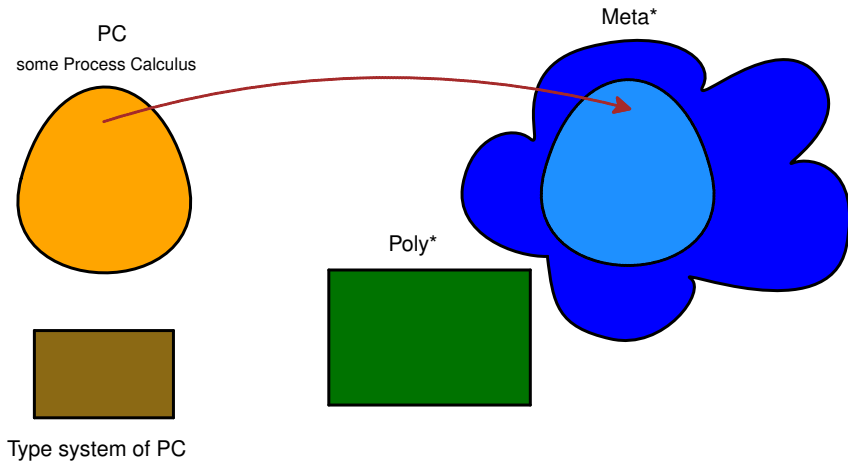
Type system of PC

Meta*



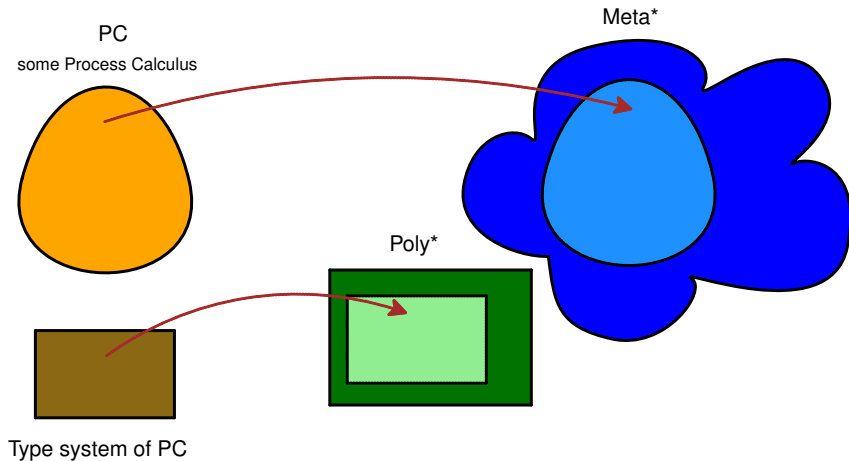


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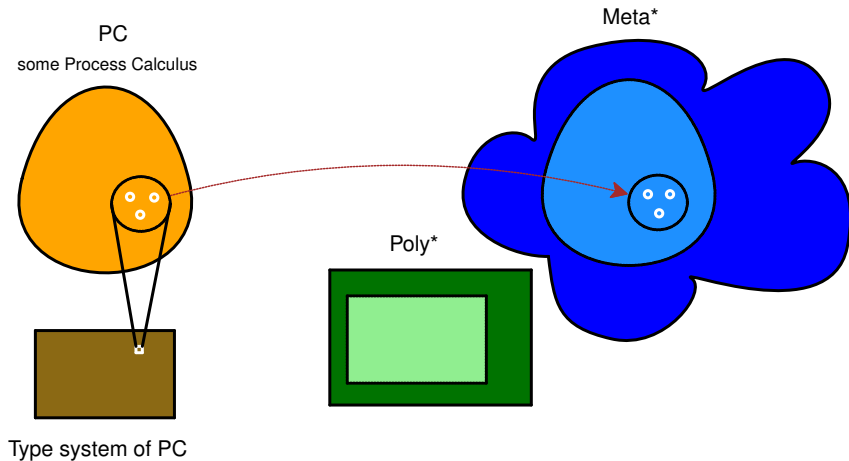


Embedding of a Type System in Poly*



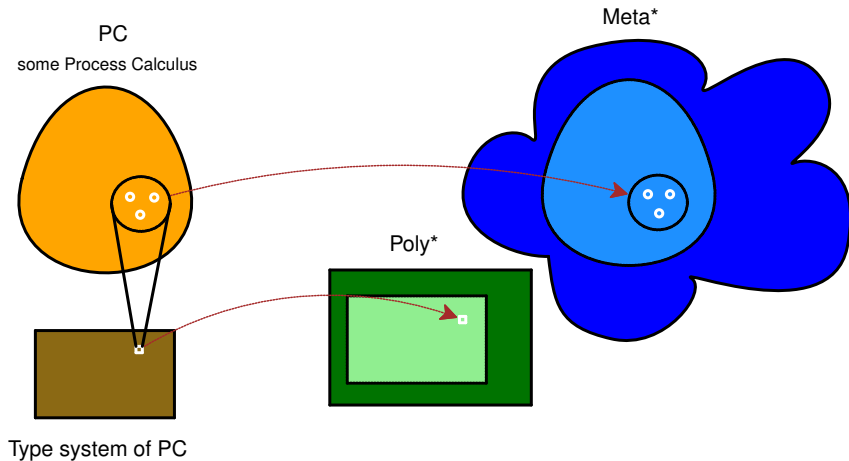


Properties of Embeddings



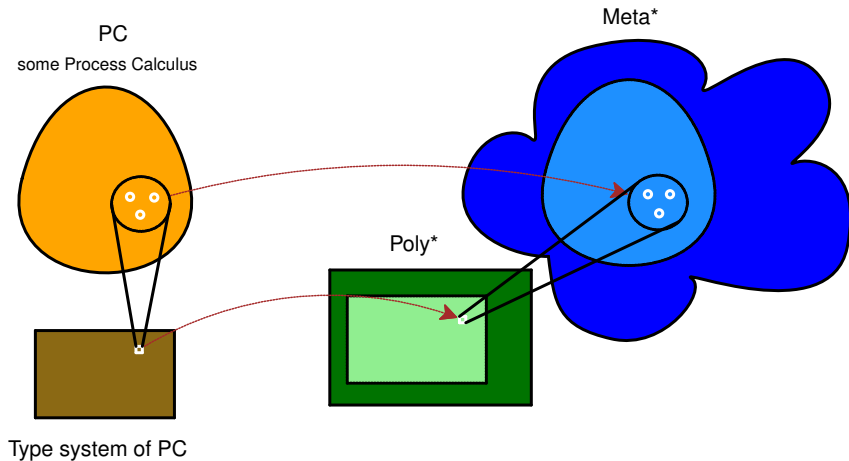


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Work Time Line

beginning of the 2nd year



comparison



extensions



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corrections

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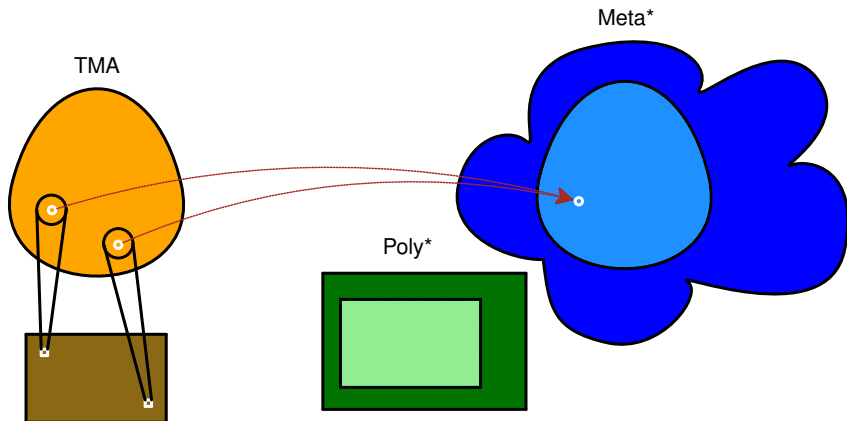
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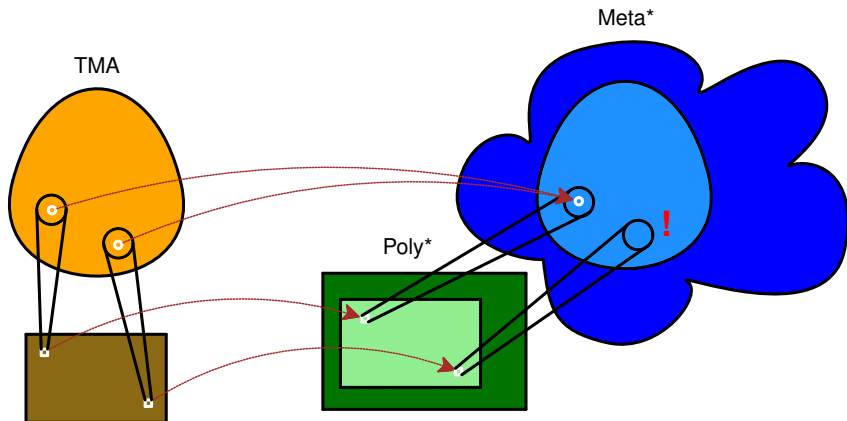


The same image of different processes





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Introduction of Basic Names

1. In the original version, processes and types are built from atomic names like 'a'.
2. In the new version processes are build from pairs of an atomic (basic) name and a natural number like 'a³'.



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