

User

$\text{Lam} : \text{Type} \rightarrow \text{List Type} \rightarrow \text{Set}$

Allais et al.'s  
library (ported)

Metaprograms

User

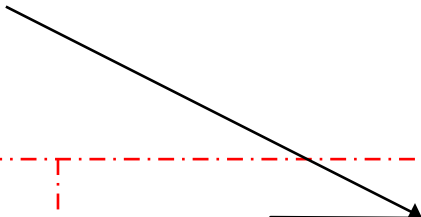
$\text{Lam} : \text{Type} \rightarrow \text{List Type} \rightarrow \text{Set}$

Allais et al.'s  
library (ported)

$\leftarrow \text{LamD} : \text{DataD}$

genDataD

Metaprograms



User

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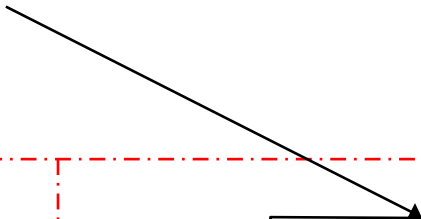
$\text{LamSyn} : \text{Syntax LamD}$

Allais et al.'s  
library (ported)

$\leftarrow \text{LamD} : \text{DataD}$

genDataD

Metaprograms



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$\text{LamSyn} : \text{Syntax LamD}$

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Renaming

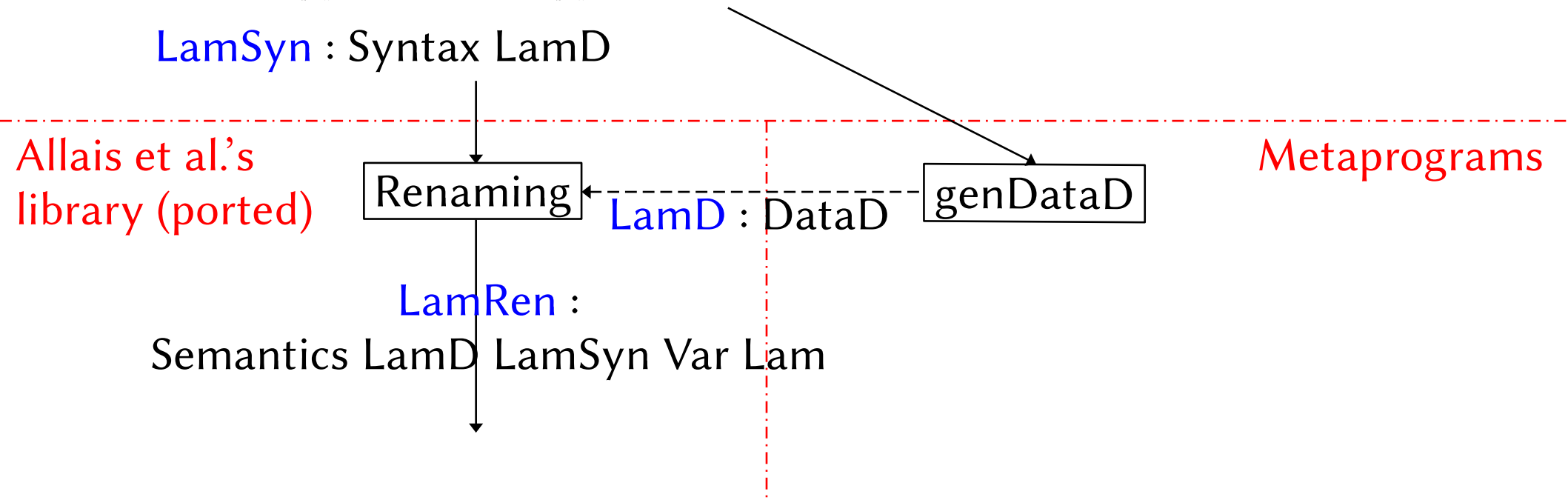
$\text{LamD} : \text{DataD}$

genDataD

Metaprograms

$\text{LamRen} :$

$\text{Semantics LamD LamSyn Var Lam}$



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Allais et al.'s  
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Renaming

$\text{LamD} : \text{DataD}$

genDataD

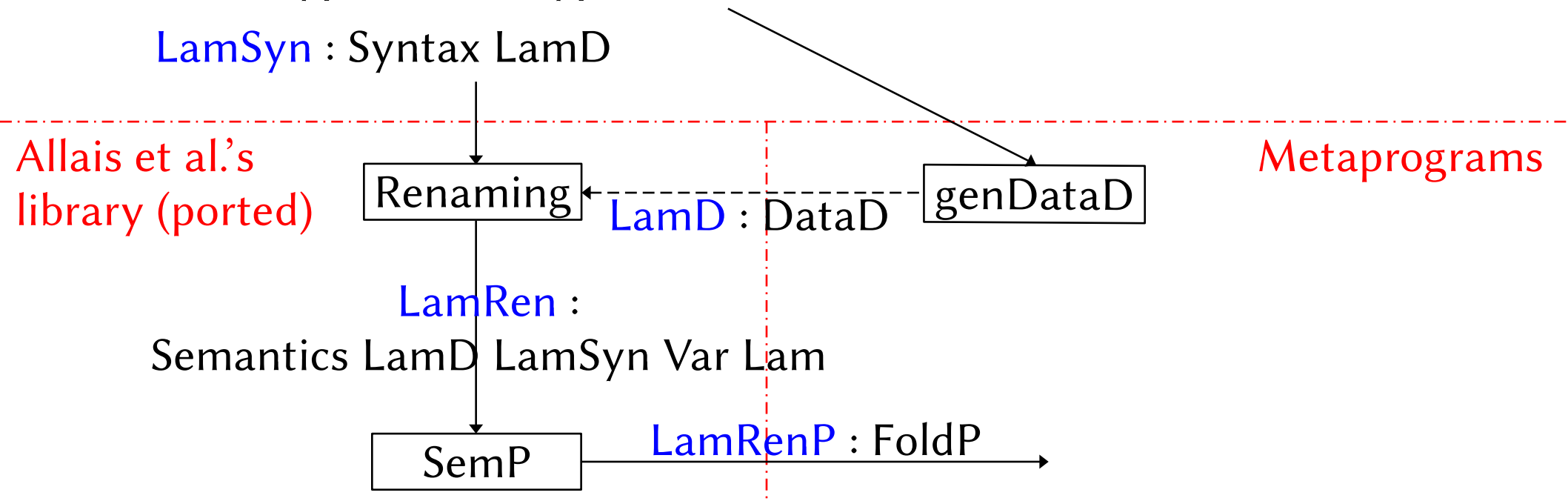
Metaprograms

$\text{LamRen} :$

$\text{Semantics LamD LamSyn Var Lam}$

SemP

$\text{LamRenP} : \text{FoldP}$



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$\text{LamSyn} : \text{Syntax LamD}$

$\text{rename} : (\forall \{\sigma\} \rightarrow \text{Var } \sigma \Gamma \rightarrow \text{Var } \sigma \Delta) \rightarrow \text{Lam } \tau \Gamma \rightarrow \text{Lam } \tau \Delta$

Allais et al.'s  
library (ported)

Renaming

$\text{LamD} : \text{DataD}$

genDataD

Metaprograms

$\text{LamRen} :$

$\text{Semantics LamD LamSyn Var Lam}$

SemP

$\text{LamRenP} : \text{FoldP}$

defineFold

