

$$\begin{array}{l}
H\\
u,v\in\\
H^\times\\
uv\in\\
H^\times\\
H\\
A(H)\\
H\\
\bar{a}\in\\
A(H)\\
u,v\in\\
H^\times\\
uav\in\\
A(H)\\
x\in\\
H\\
H^\times\\
u,v\in\\
H^\times\\
\mathsf{L}_H(uxv)=\\
\mathsf{L}_H(x)\\
?\\
H\\
X_1,\ldots,X_n\in_{,1}\\
(H)\\
X_1\cup\\
\ldots\cup\\
X_n\subseteq\\
X_1\cdots X_n\\
u,v\in\\
H^\times\\
X_1,\ldots,X_n\in_{,\times}\\
(H)\\
|uX_1\cdots X_nv|=\\
|X_1\cdots X_n|\geq\\
\max_{1\leq i\leq n}|X_i|\\
K\\
H\\
(K)\\
(H)\\
(K\\
)\\
(H)\\
(H)^\times=(\\
H)^\times=\\
\{\{u\}:\\
u\in\\
H^\times\}\\
A(\mathcal{P}(H))\subseteq\\
H^\times A(\mathcal{P}(H))H^\times\\
??\\
(\dot{X}.\\
1_H)\cup\\
(1_H.\\
Y)\subseteq\\
XY\\
X,Y\in\\
\mathcal{P}(H)\\
??\\
??\\
X\rightarrow\\
H\\
u\vdash v\\
u,v\in\\
H^\times\\
X\subseteq\\
H\\
H\\
??\\
??\\
??\\
??\\
A\in\\
A((H))\\
A\\
H\\
u\in\\
H^\times\\
1_H\in\\
uA\\
uA\\
(H)\\
????
\end{array}$$

$$\begin{array}{l}
\varphi^*: \\
F^*(H) \rightarrow \\
F^*(K) \\
\varphi^*(x) = \\
\varphi(x) \\
x \in \\
H \\
\varphi \\
\text{equimor-} \\
\text{phism} \\
\varphi^{-1}(K^\times) \subseteq \\
H^\times \\
\varphi \\
\text{atom-} \\
\text{preserving} \\
\varphi(A(H)) \subseteq \\
A(K) \\
x \in \\
H \\
b \in \\
Z_K(\varphi(x)) \\
A(K) \\
\varphi^*(a) \in \\
b_{C_K} \\
a \in \\
Z_H(x) \\
\varphi \\
\text{ss-} \\
\text{sen-} \\
\text{tially} \\
\text{sur-} \\
\text{jec-} \\
\text{tive} \\
K = \\
K^\times \varphi(H) K^\times \\
H \\
K: \\
\varphi: \\
H \rightarrow \\
K \\
L_H(x) = \\
L_K(\varphi(x)) \\
x \in \\
H \backslash \\
H^\times \\
\varphi \\
y \in \\
K \backslash \\
K^\times \\
x \in \\
H \backslash \\
H^\times \\
L_K(y) = \\
L_H(x) \\
? \\
? \\
H \\
J: (\\
H) \hookrightarrow (\\
H) \\
A(\mathcal{P}(H)) = \\
H^\times A(\mathcal{P}(H)) H^\times \\
L_{\mathcal{P}(H)}(X) = \\
L_{\mathcal{P}(H)}(X) \\
X \in \\
\mathcal{P}(H) \\
L(\mathcal{P}(H)) = \\
L(\mathcal{P}(H)) \\
?? \\
?? \\
?? \\
?? \\
?? \\
???? \\
?? \\
???? \\
???? \\
?? \\
?? \\
???? \\
? \\
X \in \\
\mathcal{P}(H) \\
u \in \\
H^\times \\
u^{-1}X \in \\
\mathcal{P}(H) \\
X
\end{array}$$

$$\begin{array}{l}
\mathcal{A} \\
\mathcal{G}^H_L \\
\overline{A} \\
A(\overline{H}) \\
ind^{GL}_H(u)= \\
\infty \in \\
H \\
H?? \\
\{0,1\}^* \\
\{0,2\}^* \\
\{0,3\}^* \\
\{0,4\} \\
\mathbf{Z}/5\mathbf{Z} \\
(\mathbf{Z}/5\mathbf{Z},+) \\
?? \\
\mathbf{Z}/p\mathbf{Z} = \\
\{0,1\}+ \\
\{0,2\}+ \\
\{0,3\} \\
H \\
x \in \\
H \\
(H) \\
0 \\
2 \\
_H(x) \neq \\
\emptyset \\
_Hx) \neq \\
\emptyset \\
a \in \\
\mathcal{Z}_H(x) \\
(a,b) \in \\
C_H \\
b \in \\
\mathcal{Z}_H(x) \\
K \\
H \\
x \in \\
_Kx) =_H \\
x) \\
\mathsf{L}_K(x) = \\
\mathsf{L}_H(x) \\
H \\
_Hx) =_H \\
(x) \\
\mathsf{L}_H(x) = \\
\mathsf{L}_H(x) \\
?? \\
?? \\
?? \\
??? \\
?? \\
a \\
A(H) \\
1 \\
\pi_H(a) \\
H \\
\pi_H(a) \neq \\
\pi_H(b) \\
A(H) \\
b \\
> \\
\tau \\
?? \\
K \\
H \\
x \in \\
_K \\
\mathcal{Z}_K(x) = \\
\mathcal{Z}_H(x) \\
\mathsf{L}_K(x) = \\
\mathsf{L}_H(x) \\
? \quad ?? \\
H \\
A(H) \\
a_1,\ldots,a_n \in \\
A(H) \\
\prod_{i \in I} a_i = \\
a_1 \cdots a_n
\end{array}$$