

$$\begin{array}{ccc}
\overset{+}{H}_\nu^\sigma & \ni & \lambda \\
\downarrow & & \downarrow \\
H^\sigma \overset{+}{\times} N & \ni & H_\nu^\sigma \sqcap H_\nu^\sigma \xrightarrow{\lambda} \underline{\underline{H}_\nu^\sigma}_\lambda \\
\downarrow & & \downarrow \\
\overset{+}{N} & \ni & \nu
\end{array}$$

$$H^\sigma \overset{+}{\times} N = \bigcup_{\nu \in H^\sigma \sqcap \overset{+}{N}} \overset{+}{H}_\nu^\sigma$$

$$a \bowtie \nu \in \overset{+}{N} \xleftarrow{\bowtie} H^\sigma \bowtie \overset{+}{N} \ni a:\nu$$

$$n^{a \bowtie \nu} = \widehat{n^a}^\nu$$

$$a \bowtie \underline{\underline{a}} \bowtie \nu = \underline{\underline{a}} \underline{\underline{a}} \bowtie \nu$$

$$H_\nu^\sigma = \frac{a \in H^\sigma}{a \bowtie \nu = \nu} \sqsubset H^\sigma$$

$$H_{a \bowtie \nu}^\sigma = a H_\nu^\sigma a^{-1}$$

$$\underline{\underline{a}} \in H_\nu^\sigma \Rightarrow \underline{\underline{a}} \underline{\underline{a}} a^{-1} \bowtie \underline{\underline{a}} \bowtie \nu = \widehat{\underline{\underline{a}} \underline{\underline{a}} a^{-1} a} \bowtie \nu = \underline{\underline{a}} \underline{\underline{a}} \bowtie \nu = a \bowtie \underline{\underline{a}} \bowtie \nu = a \bowtie \nu$$

$$\lambda \in \overset{+}{H}_\nu^\sigma \Rightarrow a^\lambda \mathsf{I} \in \underline{\underline{H}_\nu^\sigma}_\lambda \leftarrow H^\sigma \bowtie \underline{\underline{H}_\nu^\sigma}_\lambda \ni a:\mathsf{I}$$