

$$\begin{array}{ccccc}
 W_1 & \xrightarrow{\quad \mathcal{T} \quad} & W_2' & & \\
 \rho_1 \downarrow & \searrow \mathcal{T} & \swarrow \sim & \rho_2 \downarrow & \\
 v_1 & \xrightarrow{\quad \mathcal{T}^* \quad} & W_2 & \xrightarrow{\quad \sim \quad} & v_2' \\
 & \searrow \mathcal{T}^* & \rho_2 \downarrow & \swarrow \sim & \\
 & & v_2 & &
 \end{array}
 \tag{1}$$

$$\begin{array}{ccccc}
 \text{Word}_1 & \xrightarrow{\quad \mathcal{T} \quad} & \text{Word}_2' & & \\
 \rho_1 \downarrow & \searrow \mathcal{T} & \swarrow \sim & \rho_2 \downarrow & \\
 \vec{v}_1 & \xrightarrow{\quad \mathcal{T}^* \quad} & \text{Word}_2 & \xrightarrow{\quad \sim \quad} & \vec{v}_2' \\
 & \searrow \mathcal{T}^* & \rho_2 \downarrow & \swarrow \sim & \\
 & & \vec{v}_2 & &
 \end{array}
 \tag{2}$$