$$\begin{array}{c|c}
\operatorname{KL}\left(q(X) \parallel p(Z)\right) & Z \\
\sum_{h=1}^{H-1} \sum_{m=1}^{M_h} \mathbf{r}_{X_h}^{(m)} \\
+ \\
\sum_{h=1}^{H} \mathcal{H}_{q(X_h)} \\
\sum_{m=1}^{M_Y} \mathbf{g}_{Y}^{(m)}
\end{array}$$