

$$\begin{array}{c}
\begin{array}{ccc}
& & \text{M:C} \quad \underbrace{\text{M} \triangleleft \text{h}:R}_{\infty} \\
\text{M} \quad \underbrace{\text{M} \triangleleft \text{h}}_{\infty} & \xrightarrow{\hspace{1cm}} & \mathbb{R}
\end{array} \\
\text{M:C} \quad \underbrace{\text{M} \triangleleft \text{h}:R}_{\mathbb{A}} \xrightarrow{\hspace{1cm}} \text{Tr}_R \exp \int^C \mathbb{A}_\mu dx^\mu = P \exp \int^C \mathbb{A}_\mu dx^\mu \\
\text{time-ordered exponential}
\end{array}$$