

$$\begin{array}{ccc}
t \overline{\P}^{\sharp}_Q & & \\
& \searrow & \\
t|\dot{\P}^{\sharp}_Q & \exp \dot{\P} - t \mathcal{H} & \mathbb{R} \\
& \downarrow & \\
& \nearrow & \\
& \dot{\P}^{\sharp}_{Q/f} & \\
& \downarrow & \\
t \overline{\P}^{\sharp}_Q & & \\
& \partial_t \underbrace{\dot{\P}^{\sharp}_{Q/f}}_{= \mathcal{H} \star \underbrace{\dot{\P}^{\sharp}_{Q/f}}_{}} & \\
& \sum_n \frac{\overbrace{\dot{\P} - t}^n}{n!} \mathcal{H} \star \underbrace{\dot{\P}^{\sharp}_{Q/f}}_{} &
\end{array}$$