

$$\frac{s}{t} \longmapsto \frac{\varphi}{tt'}$$

$$\int d_{S[t^{-1}]} \qquad \qquad \int d_{S[tt'^{-1}]}$$

$$\frac{1}{t}d_{S[t^{-1}]}(s) + sd_{S[t^{-1}]}(\frac{1}{t}) \longmapsto \frac{f \circ (1 \otimes D\varphi)}{tt'} d_{S[tt'^{-1}]}(s) + sd_{S[tt'^{-1}]}(\frac{t'}{tt'})$$

$$\int_{\gamma_t} \qquad \qquad \int_{\gamma_{tt'}} \gamma_{tt'}$$

$$\frac{1}{t}d_{S}(s) - \frac{s}{t^2}d_{S}(t) \longmapsto \frac{\phi}{tt'}d_{S}(s) - \frac{st'}{(tt')^2}d_{S}(tt') (3)$$