

$$\int_{d\gamma}^{0|0} \exp \frac{-1}{\hbar} \int_{dt}^{r|s} \left(\frac{m}{2} \dot{\gamma}^2 + \frac{m}{2} \omega^2 \gamma^2 \right) = \sqrt{\frac{m\omega}{2\pi\hbar \sin \omega (s-r)}}$$

$$\omega = 2\pi\nu$$

$$r|s \xrightarrow[\text{cl path}]{\gamma} \mathbb{R}: m \int_{dt}^{r|s} \dot{\gamma}^2 + \int_{dt}^{r|s} \omega^2 \gamma^2$$

$$\int_{dt}^{r|s} \frac{m}{2} \dot{\gamma}^2 + \int_{dt}^{r|s} \omega^2 \gamma^2$$