

$$|x_0\rangle \int_{-\infty}^{\infty} \delta(x - x_0) |x\rangle dx$$

$$\zeta(s) = \prod_{p \text{ prime}} \frac{1}{1 - 1/p^s}$$

$$\xi(s) = \pi^{-s/2} \Gamma\left(\frac{s}{2}\right) \zeta(s)$$