

$$\mathbb{C}_{\Delta_{\omega}} \mathbb{C}^{\times}$$

$$\overline{a} < 1 \Rightarrow \begin{cases} z\gamma \Rightarrow \prod_{1 \leq n} \underline{1 - a^n z} \in \mathbb{C}_{\Delta_{\omega}} \mathbb{C}^{\times} \\ z\gamma = \underline{1 - az}^{az} \gamma \Rightarrow \text{Taylor-Reihe um } 0 \end{cases}$$

$$\pi z \mathbf{s} = z (1 - z^2) (1 - z^2/4) (1 - z^2/9) \cdots = z \prod_{1 \leq n} (1 \pm z/n)$$

$$\pi z/2 \mathbf{c} = (1 - z^2) (1 - z^2/9) (1 - z^2/25) \cdots = \prod_{0 \leq n} (1 \pm z/(2n + 1))$$