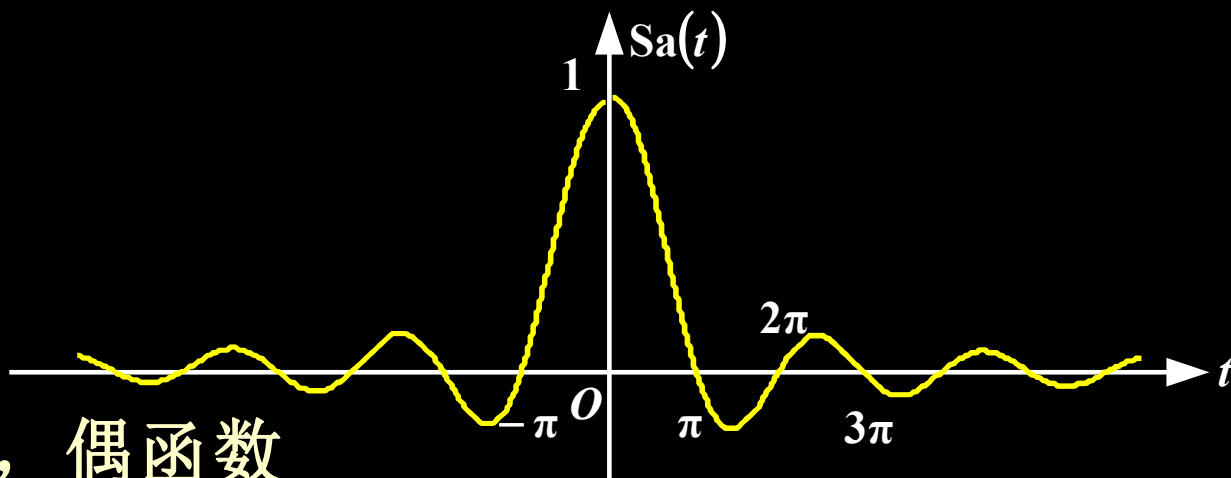


# 抽样信号 (Sampling Signal)

$$\text{Sa}(t) = \frac{\sin t}{t}$$

## 性质



- ①  $\text{Sa}(-t) = \text{Sa}(t)$ , 偶函数
- ②  $t = 0, \text{Sa}(t) = 1$ , 即  $\lim_{t \rightarrow 0} \text{Sa}(t) = 1$
- ③  $\text{Sa}(t) = 0, t = \pm n\pi, n = 1, 2, 3 \dots$
- ④  $\int_0^{\infty} \frac{\sin t}{t} dt = \frac{\pi}{2}, \int_{-\infty}^{\infty} \frac{\sin t}{t} dt = \pi$
- ⑤  $\lim_{t \rightarrow \pm\infty} \text{Sa}(t) = 0$
- ⑥  $\text{sinc}(t) = \sin(\pi t)/(\pi t)$