Unitäre Matrix

$$\sum_{k=1}^{n} u_{kp}\,\overline{u_{kq}} = \delta_{pq}$$

$$\delta_{pq} = \begin{cases} 0 & (p \neq q) \\ 1 & (p = q) \end{cases}$$

$$\sum_{k=1}^{n} u_{pk}\,\overline{u_{qk}} = \delta_{pq}$$

$|A|^2 = 1$ $\qquad$ $|A| \cdots e^{i\varphi}$

$\bar{U}^{*} U = 1$

$U^{-1} = \bar{U}^{*}$.

Maxwell Distribution

$$\frac{dn_v}{n} = \frac{4}{\sqrt{\pi}} \frac{v^2}{v_0^2} e^{-\frac{v^2}{v_0^2}} d\left(\frac{v}{v_0}\right)$$

$v \geq 0$