量子分子的测定、火油的内部、(证面影本 стря.)

S系の物理量 Ôを測定はい.

$$\hat{O} = \sum_{m} |m| |n| |n| |n|$$

$$\hat{P}_{\delta}(n) = |n| |n| |n|$$

$$\hat{P}_{\delta}(n) = |n| \langle n|$$

$$\hat{H} = \sum_{n=1}^{\infty} |u_n\rangle\langle u_n| m$$
. $\hat{P}_{H}(m) = |u_n\rangle\langle u_m|$

Ps, Poか測定前の状態

Pso についてのBorn 見のみ用いて M=mを情でときのら(m)を求める。

$$\widehat{\hat{p}}(\widehat{0}=O_n;\widehat{M}=m) = T_r \left\{ \widehat{p}_{sD}(\widehat{p}_{o}(n)\otimes\widehat{I})(\widehat{I}\otimes\widehat{p}_{\mu}(m)) \right\}$$

$$\mathbf{BC} = \operatorname{Tr} \left[T_n \left(\mathcal{P}_{SD} (\hat{\mathbf{I}} \otimes \hat{\mathbf{P}}_{\mu}(\mathbf{m}) \right) + s(\mathbf{n}) \right]$$

$$\widehat{p}(\widehat{0} = 0_n \mid m) \times \widehat{p}(\widehat{H} = m) = \left\{ T_r \left(\widehat{\mathcal{S}}_S(m) \, \widehat{p}_S(n) \right) \right\} \left\{ T_r \, \mathcal{S}_D \, (\widehat{\mathbf{I}} \otimes \widehat{p}_\mu(m)) \right\}$$

$$= \operatorname{Tr} \left[\widehat{\mathcal{F}}_{S}(m) \operatorname{Tr} \mathcal{F}_{SD}(\widehat{1} \otimes \widehat{p}_{M}(m)) \right] p_{o}(n)$$

$$\hat{\mathcal{F}}_{s}(m) \left(\underbrace{\mathsf{Tr}}_{sD} \hat{\mathcal{F}}_{sD} \left(\widehat{\mathsf{I}} \otimes \widehat{\mathcal{F}}_{M}(m) \right) \right) = \underbrace{\mathsf{Tr}}_{D} \hat{\mathcal{F}}_{sD} \left(\widehat{\mathsf{I}} \otimes \widehat{\mathcal{F}}_{M}(m) \right)$$

$$S_{S}(m) = \frac{\text{Tr}(\widehat{1} \otimes \widehat{P}_{M}(m)) \widehat{S}_{5D}(\widehat{1} \otimes \widehat{P}_{M}(m))}{\text{Tr} \widehat{S}_{5D}(\widehat{1} \otimes \widehat{P}_{M}(m))}$$

き肉物門教の収録