$$\langle A \rangle = \frac{1}{\langle A \rangle}$$

$$+ \frac{1}{\langle A \rangle} = 1$$

$$S = \sum_{i} x_{i} |q_{i} \rangle \langle q_{i}|$$

$$\beta = \frac{1}{2} \left(\boxed{1 + \overrightarrow{r} \cdot \overrightarrow{r}} \right) + \frac{1}{\sqrt{(\overrightarrow{r} \cdot \overrightarrow{r})} = 0} \qquad ||v|| = 1$$

$$= \frac{1}{2} \left(\boxed{1 + \cancel{r} \cdot \cancel{r}} + \cancel{r} \cdot \cancel{r} \cdot \cancel{r} + \cancel{r} \cdot \cancel{r} \cdot \cancel{r} \right) \qquad ||\overrightarrow{r}|| < 1$$

$$= \frac{1}{2} \left(\boxed{1 + \cancel{r} \cdot \cancel{r}} + \cancel{r} \cdot \cancel{r}$$

$$\begin{cases}
\langle \sigma_x \rangle = \Gamma_x \\
\langle \sigma_y \rangle = \Gamma_y \\
\langle \sigma_z \rangle = \Gamma_z
\end{cases}$$

$$\|\vec{v}\| = 0$$

$$\Rightarrow g = \frac{1}{2}I$$

$$-\frac{1}{2}|_{\delta} \times _{\delta}|_{1} + \frac{1}{2}|_{1} > (1)$$

$$+ (g) = 1$$

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(52)=tr((plo>6)+(1-p)1>(1)Z)

$$= p tr(|0 \times 0| z) + (1-p) tr(|1 \times 1| z)$$

$$= \langle 0|z|0 \rangle = \langle 0|0 \rangle = 1$$

$$= \langle 0|z|0 \rangle = \langle 0|0 \rangle = 1$$

$$= p + (1-p) \cdot (-1) = 2p - 1$$

$$|Bel> = \frac{1}{2}(|00\rangle + |111\rangle)$$

$$|T(|\psi_{1}\rangle\langle\psi_{2}|) = \langle\psi_{2}|\psi_{1}\rangle$$

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$$|T(|\psi_{2}\rangle\langle\psi_{1}|) = |$$