Metropolis-Hastings for doservables

$$\langle \hat{0} \rangle = \frac{\text{Trace}(\hat{0} \cdot \hat{\S})}{\text{Trace}(\hat{\S})} = \frac{\langle 0^T | \S \rangle}{\text{Trace}(\hat{\S})}$$

$$\langle 0^{T}|8\rangle = \sum_{x} \langle 0^{T}|x\rangle \langle x|8\rangle = \sum_{x} \frac{\langle 0^{T}|x\rangle}{\langle 8|x\rangle} \cdot |\langle x|8\rangle|^{2}$$

not c.c.

just transposed of is tow vector form

where
$$1 \times > = 15,5' >$$

Trave(3) =
$$\sum_{x} \langle x | g \rangle \delta(s-s') = \sum_{x} |\langle x | g \rangle|^2 \cdot \frac{1}{\langle g | x \rangle} \cdot \delta(s-s')$$

=
$$\int if count-nonzero(S_0^{1}S) == 1$$

retrurn $1/N$
else 0