How to define normalized fields

ASSUME W'12,3, B ARE NORMALIZED

2000 think of them as unit vectors

10 field-space, eg [wi], [B)

OF Êw', Ews, Ews. Ews.

THEN:
$$|W' - iW^2|^2 = |W'|^2 + |W^2|^2 = 2$$

So normalize: $W^+ = \sqrt{2}(W' - 1W^2)$

$$\begin{aligned} \left| -(g'B - gW^{2}) \right|^{2} &= (g')^{2} |B|^{2} + g^{2} |W^{2}|^{2} \\ &= (g')^{2} + g^{2} = g^{2}_{8} \end{aligned}$$
DEFINITION
FOR OWNERIENCE

80 the property Normalized State is

$$Z = \frac{-g/B + gW^3}{52}$$

NOW RETURN TO
$$D_{H}(H) = \frac{iv}{2\sqrt{2}} \left(\frac{g(w'-iw^2)}{g'B - gw^3} \right)$$

$$|D_{+}\langle H \rangle|^{2} = \frac{V^{2}}{4} \left(|8W^{\dagger}|^{2} + |\frac{3}{12}Z|^{2} \right)$$

$$= (\frac{3V}{4})^{2} W^{\dagger}W^{\dagger} + \frac{1}{2}(\frac{3}{2}V)^{2} Z^{2}$$

$$= (\frac{3V}{4})^{2} W^{\dagger}W^{\dagger} + \frac{1}{2}(\frac{3}{2}V)^{2}$$

$$= (\frac{3V}{4})^{2} W^{\dagger}W^{\dagger} + \frac{1}{2}(\frac{3}{2}V)^{2} Z^{2}$$