## Marrie Form of the GD Hypersno Action

Let's group the relations low [49, 49] and Bill into matrix down:

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Then

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this comes Brown

$$2 = \frac{1}{2} \left[ \frac{1}{4} \frac{1}{$$

(2)

The now transfer to hyperorultiplet of:

$$\psi^{\circ}$$
 2  $\Xi^{i}$   $j$   $b$   $j$ 

$$\begin{cases} G^{\dagger} & G^{\dagger} \\ G & G^{\dagger} \end{cases} = h^{*}$$

G 1 2 69

From here

Evidently, easit expect that h or ht are (anti) holomorphic

Let's now subset the suspect 
$$G = EE^{\dagger}$$
.  $\Rightarrow G^{\dagger} = E^{*}E^{\dagger}$ .

$$G = \begin{cases} G \\ G \end{cases} = \begin{cases} EE^{\dagger} \\ E^{*}E^{\dagger} \end{cases} = \begin{cases} E \\ E^{*} \end{cases} = \begin{cases} E^{\dagger} \\ E^{*} \end{cases} = \begin{cases} E^{\dagger} \\ G^{\dagger} \end{cases}$$

= g = D. Dt; h = DEDT. h\* = 0\*EDt.

# IR = ZTD-DTZ; SHEPT Z DEDTZ.

[kabler]
[werre]

This Z D D EDTZ. we then impodue 3=ZD, \$ = 3.3<sup>t</sup>. H<sub>1</sub>= 3.83<sup>t</sup>; It's left to show that I is helamorphie: J= = D= | 35 £ | | E | = | 9 i E & E | ; Piet = faire Exterior holomorphie It c.b. shown that gift is holomorphic: we recall that there's a connection - PAKC = PABB KC, E.e. - Ek = 8.9k = Bi = - 895 = - E E 9j and so I'LE = - d' E E E = + d' E E I = holomorphic = J is holomorphic