why?

EXERCISE: a pote above & = (8, 8, -184)

"HOPER DOF"

L= = & ATA& = = 28; A1; 83

= & 2 & Au 8;

ASSUME SYMMETRIC

eg: if g: ~ 8(ti), then

| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 100

- Series of course higheric decides in the extend to extend the extend to extend the extendence to course his in the course his in the course of the course

capitations as publicates

ERVATION of motion : 38 : 10 - 181

we treat you as part of deracar

So so of so team (this is equipment)

> (Ax); = 0)

C AM. Marks in continents

For its: $A = 3^2 + M_S = 3^2 - \Delta_S + M_S$ So from relatice -> continuoum sourcerine A = 194 + 94 + 400

EOM: O+(x) = [q4 & E16x 2(b)]

046) = 124p (-P2+M2) F(p) =0

endly condition!

SO VIHAT! WE JUST STARTED U)

3° team we identified all MNEUKIERM

on? is over some non-defivative

DENTIFIED U MASS

it cos moss of particle

1 m2+2

UNIPERTURISED PROPAG

Me la seduce aleem

HIGGS: 414 is should one was .

GANGE BOSONS

BUBY IS NOT ALLOWED

why: under vocal exametry

Br > Br - \$ 0-86)

show here

(ex 4 - eige 4)

I amilar for W, g

8= BIBT is not imperiment

-> no mass term are emise.

<u>FERMIONS</u>

SAN MOICES: The (At) ?

LA CHRAL

X3 (x+)a

PH CHIRAL

80. 444 count be contracted

(4), (5+) 2 , 4a

allowed .. but I modex needs to be contracted

EMER: now field (or for)

OF: OF GIVES MINEUR TERM. NOT MASS What is allowed: 4"4" Ear = 42.

S put prohibited BY SU(3) xSU(0) x U(1)!

4×485×8

I if I makes. I all opper!

or, maybe suled is or:

Laa LBb Exp Eab

PUT: HYPERCHAPGE 100 CONSERVES!

Y[LL]=2Y[L]=-1 +0

not U(1), mideral

condusion: none of the Quale's

where were; we sow is tell of diage and

myst to ollowed:

4 xta two mifferent packers

SUPPOSE QEO: $4 = e_L$ $x = e_R$ 8x = -1

Then: Yet is BOTH SAN I Ultion WARRING - BUT ADORE ARE THE SANDAS ELITERS
(WE call this a DIRAC SANDAR US. WEYL)