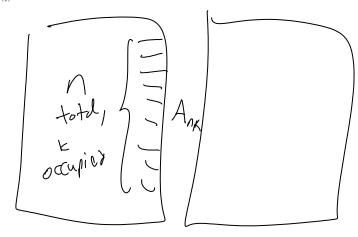
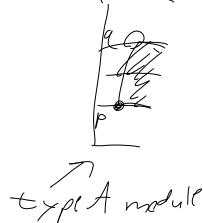
Funny algebra in HFK

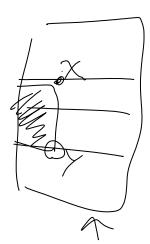
June-03-08 3:00 PM





gen. ortz by matchings M d counts internal rets

d counts internal yets
partial rects in
ulg. structure



typID machell A &M

d counts partial

$$dx = \int y$$

$$d(p \otimes x) = p \otimes \int \int y = q \otimes y$$

1(am) = a dm + (1a)m dn=0

d(xey) = dxey + nod> d(xaoy) = d(xoay) dx.a & y + x;da & y + x; a & dy = dx a a y + x gda. y + x gady $A = F_{\lambda}(1, E, JE)$ EZ=0, 6d6=(d6)20 A=

deg=#of

xings

obvious composition,

except it two strands

cross twia, =0. J= = all ways of Smoothing a xity claim IF (M, d) is a left A given an module w/ d/20 & (M/d/ is R-algebra) a right R-module st. 12=0 MOA, Then (NO,A)O,M has 2=0 NORM

aty: A an DGA ON R

N is a left R module with

"Dtyp" J: N -> AORN Sit.

N -> AON DOITION IS O.

"Atype" M is a right A-DGA-module, then

MORA(AON) = MORN is a

Chain complex.

Q: Do Matrix factorizations fit in this setuple

N: No For No For Sold of the setuple

A: lo, li: idenpotents, lid = blo, lod = de,

Clo, li, liv: fiz - W I (maybe the e;'s are)

connecessary

d: n > fear + 18 fn

J:n > fear + 18 fn > O

Clearly M is an A-module?

P,Q $[P,Q] = \lambda^2$ $P^nQ^n \chi^d$ $PQP^{-1}Q^1$