

ops on N

-e.y. for M=NDN + Dh = sing of h-diff

ops on N

-> quantum hamiltonian reduction ~> quant. of 11/19 -denote Eovlond br. by Mc -look instand at C(Mc] (Mc=SpacClad) - in phys: chiral ring, sing of monopole operators -take a ptx in IR3 and its small n6 hd Gx s d Gx = \$2 -Atiyah-Segal: FE-quantum Hilb. sp. tor \$2 = Z(\$2) - what is multiplication? => 3× = \$2 LI\$2 LI\$3 1-10~(2(\$2)\$2(\$2),2(\$5)) ·HOH, H multiplication - commutative since no ordering } - task: define Z(B2) = H rigovosly - conventional approach (Donaldson (Casson th.)
- generalised SW equations (A) - A: Graconn (\*) { | (5) = 7 | FA S: M- in Spinot m: h -> y \* & R3

-set  $Z(X^3) = \#$  50(ns to Z(Z2) = homology of module space of solutions of 2d-reduction of \* -usually conditions imposed to get rid of singularities of m. sp. -> bot, 2=\$2 => all solus are reducible by dim. counting argument - also, if this works! -> Z(\$2) - fin.dim. => Spec Z (\$1) - 6. d. ~ ? t correct Eadonb branch (dim Mc = 2.0k G) -their appraach: replace \$2
by ravioli \_\_\_\_\_ = D LJ D, D= formal

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disk -in alg. geon. language, affine Grapmannian Gog Go (K) (G(O)) K= C((Z)), O-C[[+]] (Speck= D\*, Spec G= D) = Mappolynomal (B', Gre) / Gre = { f & Map(B', Gre) | f(1) = 1 Gre} - when M= NON+ , consider & w G(O)-achon [Glosk] = moduli stack of G-6dles + N-val. sections on R

= modul, of (8,52) on D, (82,52) on D