

Hm(L,L) = C[32], bt, need to choose agading; e.g., dros 2= dz a/ If choose different SL, wind is not C' - (in fact of S's in TS, SZ; and we have no points) there are $H'(\Sigma_{g,d})$ many grading choices, a priori. & point is, the de they be calle they be of 45 a cereme (chino. (flich some specific clinices on Eg.d to note the hold, or woh ove Z/2) [L-Pente] «/ flat go nedin extrada to T2 (>) 2) L-Polish chill)
+ [heating) cheline brately ? also not unique: may charas files, 0 = 0 [Abo-201d-Avour : W(Sop) = M = (tonic 3-fild, W)

- Efron + Kateahor - W(Sop) = M = (tonic 3-fild, W)

Orlar)

2/2 - graded - (+ pick & schm) Z/2 -galed - (+ pick c schu fix graduss! (C3, xyz) b godes for Cx retor. They all use - theretic'

| Sheaf-theoreti approach -] [Sibilla - Treumann - Zaslow Heather lee Pascoleff - Sibilla Nedles |
|---|
| Idea: poe? $W = W = W = W = W = W = W = W = W = W $ |
| build 250 by glung: |
| The result here uses another approach: |
| (Resolution of singularities]: |
| Say C algebraic variety, proper (projective), |
| > Perf (C) knows a lot about (, eg, whether (is smooth. (=) Perf (C) is "smooth"). |
| If C not smooth, Pept (c) \subseteq DbCoh(C) proper subject. Always a smooth category [Lunts]. |
| Perf(C) C D'Coh(C). Notified proper. |
| On the mirror side, $F(X) \longrightarrow W(X)$ always smooth almost nove smooth |
| Swoothess helps coupely extgaps (and need hit rosalitus) |

\$0 To deal of non-properors, instead consider Perf (c) All D3 (mod-A) localizes D5 (oh (c)) I smooth proper (depends on cleoties) nc categorial resolution (vander Begli, other.) on the A-side: F(X) fitch! W(X, A) whitefier will patially wapped coleges [Asnux, LOT, Sylvan, G.D.S. Countly proper of chose A cachly Specializes + Eg.d/(cu,e), use: · Bushan - Drozed on the B-side to study mildle ategorg. · Haiden - Konkerich - Listration on the A-side. (mille state his finite may objects, bis Ax some): + Bolleland+ (prodecerse of little k) dolenna gradings

Le constitution on FS category.

Le constitution on FS category. a, c, b are morphums, so a co = 0 | co cove su-free by descs s.t. each 101=101=0, 16/z) duc his one maked port or budy



