Kartsevich II ~~> (HIR(X=), HR(X,=), Hal (X,2) last time: Zeroes (d) = U Zi near Zi, d=di. => Hi, (Zi, /[(Zx]) local systems are Cit. Har(X, x) for \$70. "boaldate, as global emplosh H'(ney4bohas, 7-1/-5), Z). to & Stokes mays (HB, i, to @ C) cross Stokes ray: jump = id +

e 8

in tegr. opentus.

hound. den 8 to

when 2

look up

l of path. Extend to the o using # IHI (neighb 12 [th], total) "Hody fillater." Many Hungs make 818 in 00 - Americas. Obseration:

X so-dim'l complex.

No snr! H=+·(X, (S2, d+2)) HB (X) local system Grood (ase: when zeroes = finite U of finite din'll analytic spaces. (often happen; e.g. fredholm situation). ~ 27; is fredholm (continuous soily may courds like "stabilisation by qualitation." & finite - reduce. Rules some sign amongsty andepending on ever/odd of # of reduction. "overlate date in DT they" needed to fix this. In good cases, we have a construction of H.(X, d) (B, SR, Dol). As in finite die I situation, hol-family of chously over For (Xb, 2b) hole foundly ~) Bx Ch Moreove of family isomonopomic > flat connective along B. (meaning on total space have global closed hol. I-for restricting to flow of solution of solution of the solution Le, Lr CM holon. Lagins. X:= Maps ([0,1] >> M | 9(0) = Lg.

d = Spath w. of which hol. a-form. "graduat for real part..."

From of this form are Zeres(x) = Len Lr. ~ HF (Le, Lr), plus integral str. for lot of points. gradient lines = prevido holomorphic discs for "rotated" complex structure. H'(X, Ω_C∞, θ+α + Rha)

to get fully of coharology over CP+ (for R>>0). "twister vesser" Main example: M=T*Y, LIEM. Ly=Ty Ye Y. >> HF*(Ty, L) + +0 depending on y. isomondoneic facily (defen y; exact defence has) =) got flat connection, superdity on to. Closs: exactly Guiotto-Mane-Nortzhe sol'n of Hitchis system.

(fauly of that connection __). Use Defin: to of Stokes ray, then interecte ph_ HF (Ty, L) = (D & Z) OC. Dr consider them along Stokes rays on I had broken to notable J. The Lait: (stable order defen) enterget budle very small ~ projects to trees (on the now). Follows fre gover | principle. 'fler of local system is middle die il almosony

of spice of paths."

Conjecture (M.K., A. Relov-Kaned):
Aut (Diff'l operator on A) (Pi, 2i) - 1 - 1 + (P ²ⁿ = T ² A) with 5 lo add;) most of 7-1
- Hur (a 1 14, and 20p; 1 2,). 1851, J=01
Arguer up reductor to pose #5 / mysters y "says # Donosiles = # hol.
More gent conj:
$1 C C^{2n} H (L, \mathbb{Z}) = 0$
alg. Lagin cononical holonomic Dan module associated to it
associated to it
(uh (not hanagenees),
(why spen were green? Gue, p: (2ng sympl.)
Take (4 (a 5',),
** This constrution ques a radidate: what is the Dome 26 associated to L
Maybe smoothers not relevant, but ous exactness??)
what is it?
Con - ton
on C" (u/ no soplarly Bup to rotation at easether) Nec. bollo.)
7 to spoke of Stokes str.

"Stoken Anatoo" 5001 At so: 5²ⁿ⁻¹ L=graph of multivalued from dF. openions

O: when as the Real parts of their from, the sone bufferent?

This higher Dr.

January agreenheates of Stokes pathing 52n-1 histor. Dr.

generalizate of 54hs

fithertia (ranguage maybe introduced by when for the fithertia (ranguage maybe introduced by teashinana & schapera).

[Poly] = 0 e H²(L) N) & on path space is exact a) finite calculation (finitely many rays, etc.) " Q: how to go back from D-modely to Lag hs?" (Notsue, but ought to be asser! "this proess begins -> Draddes is faithful. It have to constat lay's for Draddes. "

J get (Lagins of boles show give - 11 Draddes). Draddes. "

Not only holonomic Dradde, but expected Motoric how. Dradb, e.g. 11 Product of the fam,

from under of the fam,

from under correspondences. $(P_1)_{x}(P_2 \exp)$ Uses torsweak Rem Hillet corresp. epetofication. ~> TY, & T'YUPT'Y (intact builday)

Suppost: mere gnert deffi:
ACT* . med. leg. subvariety.
= {(A c PT Y , gam of L, closure = A = n PT L)
to gens equalet if to to for see, its Togetherally sweet is for!
(truch Puiser sere, beepfin. many coals.
support is a gen leap more than conical behaves in the point.
Multiplicatie version:
([x)2n ul fon Edlogh Adlog of. Cores from class & k2 (rateral functions) E (x)2n kepter) Le(x)2n kepter) Lagra handow, of whe restrict class to L in get O.
From cluster Americantes, get to lagrangers
New holonomic com. Indule one $X_i Y_i = 9 \forall i X_i$, $g \in \mathbb{C}^*$ quarker fore $g = e^{i \frac{\pi}{2}}$.

~> HF'(Ex)x(Cx)" L)
Year. Axe(Cx)" rule you defen get Not isonoradionic ble colo. decr changes 1-fan so (C) (assuming convergnce). O TON YEST O. 1) hol. family. . got bob over Cx. Conjy Consider algebra genty $X = \frac{1}{2} \hat{X} = 2\hat{X}$ 0</8/64. le holonomic module abide 5 an algebraic vector bunde / Cx equivant w.r.t. X > g X. dilation by power of q. loij: They i the same as Solon, vec. bdle on E = C/9, plus the splittings of slope fithertia: (fithertia by rite #;)
(Hade-Navasmina). 2. 'gž, 'gž, . Then: analoge of RH caves p-for_ quantum Drodles Exercises the Lyspan exercise ~ get Stratum

Lx = Ex3 x (cx)2, why Lx=Lxx.??

Clent interect). Consider to pure. faily Lx,w = Lx w/lord syske of monodromy mult by W.ECX. So on (CF) C* x C X
foliation on which ~ HF (Lxw, L) claim: x2 = 1 w2 culcustry doosit shifting by x com by shift by w. chaq. × -> e x oe the same lef. Meaning one can much this equivamet -- . suppor holf. Guess: for ky-luga's manifolds, write q = explant) Int >0 IzeH). nu) holom. vec. bobs/ [/Z+iT] + 2 fitherties holomophically depends on they, Maybe exercent wird. SL(2, 2) lole modder this gives sap elliptic alg. faily of q - D-modules. Q: is it the same for vec, bde? lif so, explans why modelar forms pop out! (e-y- are they identified by modular examples?)