Itu/ Bayer Lahoz Mucri Stellar | Brogland slab for remi_ decap Stay to example! Cibic 4 hld. Then indicate genul stratage end. XCPS cobir/c. The Db(X) = < Ku(X), Qx, Qx/H), Qx(2H) D'b (ch(x)

(excepticif objects

"Kurnetson H hypplor cection

company" Roputies: (il Ku(XI) · Ku(x) is 2-CY - Sku(x) = [2]. I live fictor 1e, KulX) is a non-comm K3 Swface! · HH (Ku(x1) = HHx (K3 svace) Canj (Kuznitson) Ku(X) commutatie (19, 3 K3 S st Db(S) = Ku(X)) if X rational. But we know when Ku(X) is comm. Consider Novether-Lehrhets locus:

Comm. Comm. Comm. Consider Novether-Lehrhets locus:

Comm. C

of dissimunit d, and cartainy H? = alf-interch of hypphic cech.

Huster + Addyla-Thomas injuly: Then

generally.

Ku(x) commatate of

·XEC

* $d \equiv 0, 2 \pmod{6}$

· I not does by 4, 9, or any prome p sit. p=2, p=2 (mil 3).

d= 0 2 6 8 12 14 18 20 24 76;

Hybrechts says, generally tusted, "herby" version

Ku(x) = 06(S,d) de Br(S)= H2(S, Q, +) tor if XEG all d sit.

· d= 92 (mid6)

· N= 0 (mid 2) for all proces P=2(mid 3) in 2d= // Pini

So generally, Ku(X) B non-comm.

There are more similarities by (tarsad) \$3 surfaces and Kulx) of X cubic 4-bold.
[Under what "partiand" because if Kuzn. conj. chayed to "tarsted K3.")

Reall - (Si, di) -tursus K3 are FM parties lift Db(Si, d, 1=Db(Si, d))
Fourier-Mikai Defin

· Huybrechis: Det X,, X, EM portions iff I equilibre Ku(X,)=Ku(X) (-> Db(X))

Sit. Db(X) -> Ku(X,) = Ku(X,) (-> Db(X))

13 Fig. a FM Inctor.

(1) (Sindi) FM partur

= A(S,d, Z) = A(S,d,Z)

met praw Hope naug.

Mekai praw pany

mulus HO,H? H4...

Hodge sache as

HO12 dm 1

HO12 dm 1

posite dans as lattic;

must presere pectury

(1) X1, X2 FM power

I

2 orient-pres. Hedge Born.

A(Ku(X1), 2) = A/Ku(x12)

(2) Up to ison, (Si,di)

has only fritely may

FM portus

(Bridght-Maciry,

Hybritis-S)

(a) Likewie for X about 4-hld.

(3) # of FM parties of (5,0) can be orbitally large.

(3) Likevice.

(Ogusa, Ma)

geon of models space,

of stable shows

on K3 wheres

Tixe Bright Stab. to Stay boutand geomet. Thee moddle)

If (Sid) tursed V3. the space	
Stab (S, 2) = Ø	
and can describe a rite conn. compount in Stablisha)	
If X who 4 fell of "geonetic nature," (Ku(x))	Db((x))
then 860 b (Ku (x)) + p	
(Real gue T triang, V&K(T) ->) A syribe
	fire muk luttie
a stab and is $\sigma=(A,Z)$ when	A hear of bld t-strant,
	Z: N-i C gp hanam st.
Question: 1, Stab (Ku(XI) # 4?	(1) Z (VIEI) E
Application (1) Study broat geomet:	Y E = O, E EA
-fano vor. of the on	(2) Hardu-Navusulus
- jution one cone modelion X	(3) support populy.
(2) Remove generally assump on AT, Hybrits.	when I an Stable.
	consup!

Thm (BLMS) X my when 46th, then Stab (Ka(x)) + & (Can be suche A, but not today.)