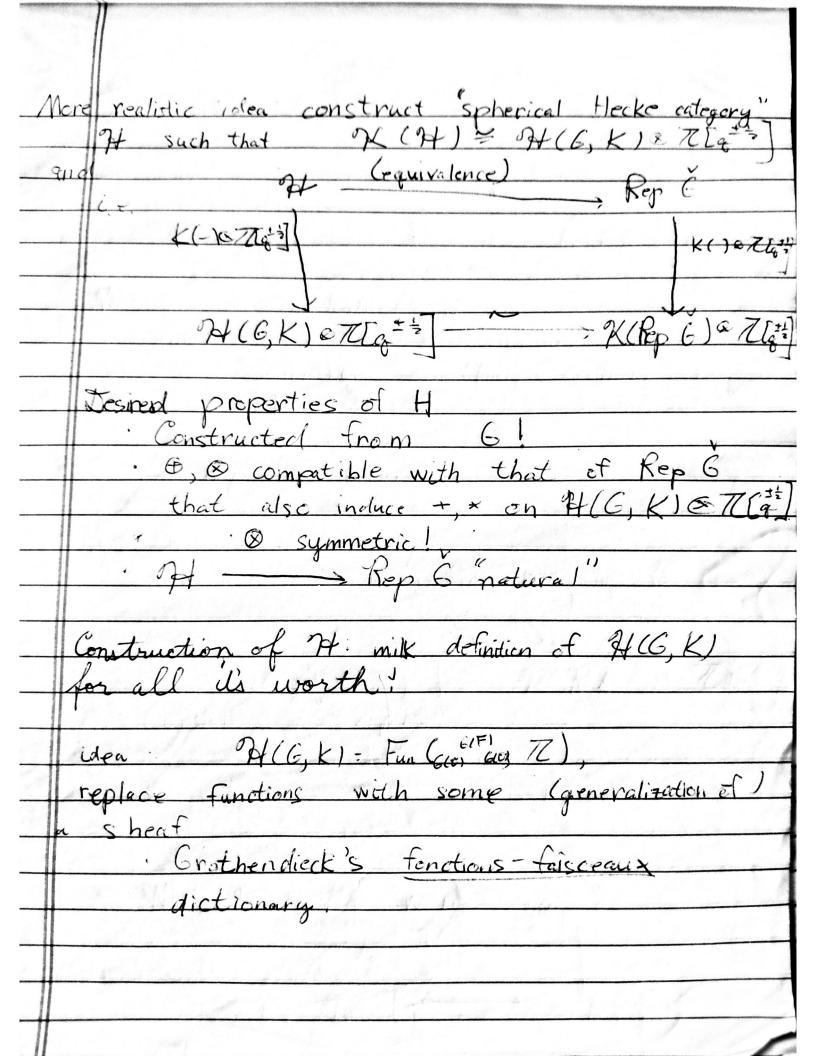
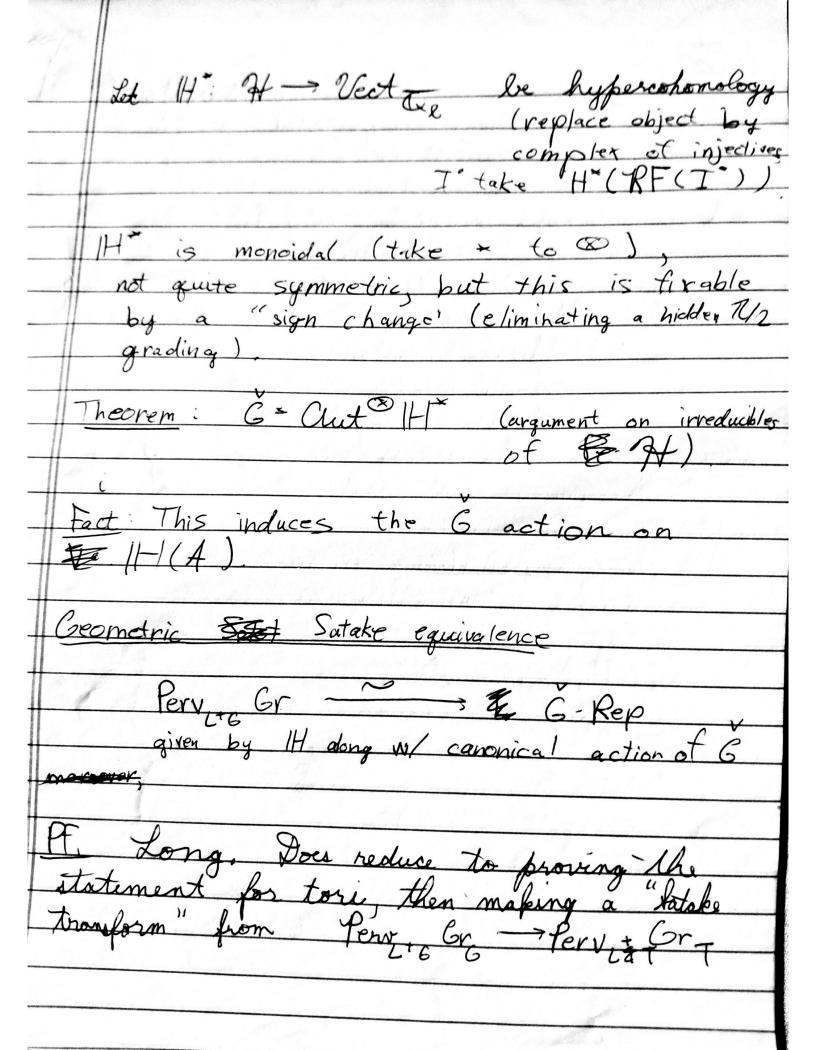
	Intro to the gametric Sotoke equivalence
	Classical Satake
	Lost time. Classical Satake  **  **  **  **  **  **  **  **  **
	What this accomplished:
	Some idea of why & appears
	Something something cocharacters!
	What this accomplished: Some idea of why. G appears: Something something racharacters!  LI K 7(t) K plays some role  Je X [T]*
	· Roadmap for future studies.
	What this deesn't accomplis  Give a classification-free relationship G=>6  e.a. X(T)
To all a second	· Give a classification-free relationship G=>6
	e.g. X.(T)
The state of the s	
	H(G, K107[qt] N(Rep 6)07[qt]
	· Construct &-repins.
	Le into is lost along
	Kep 6 - K(Rep 6) & Ma <sup>12</sup> ]
	torgettul
	What we really want: or
	That the reality want.
in real	ict:
	HCG, K 10 T[q"] - K(Rep G) & T[q"
11	



construct "G(F)/G(C)" and construct showers there with an equivariance condition to get at G(O)(G(F)/G)	
Udea Construct	
construct sheaves mere with an	181
equinariance conductor to get a Gill	
T 0 /	1
The affine Garassmannian.  We do the function version - padic  is similar but needs more adjectives	
We do the function version	
S SIMILATE HALL PICES THE	·
and Witt vectors.	
1 1 2 5 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	
Let let he a fiel (some functorial	
Define Gr. R-alg -> Sete grown for a	
in two steps.	
7+ 4/0. 6-01 2-2-1.	
A G(A [Tt]) (like a group	1
and L 6: k-alg - let	
$A \mapsto G(A(t+1))$	
Then Gr = [LG/L+G] in the fpac topology.	
then for = [76/2 G] in the	
pac apology.	
Unwinding what's going on:	
Unwinding what's going on: Consider &-points	1
Gr. (k)= G(b((+1))	
Gr (k) = G(k((t)))/G(k(t+1))	
= 6(F)/	
Coset space from before  Example: Gr 16 = 8 k[t]"-lattices in  b ((t)) n }	
oset space from before	
example Gr lb = { le [+] "-1.4.	
GLn Bichih 2	300

Constructing & Let H= Pervis (Gr) - the category of L+G-equivariant perverse sheaver on Gr · We leave perverse sheaves as kind of a blackbox Essentially they are complexes of sheaves with a dimensioned constraint, supported on some Xi (in this case, Q - Sheaver) Morphisms are derived · stad: perverse sheaves come with a "trace" tr. sending A to a funtion to an dr (A) The category is abelian and monoidal by \* = sheaf convolution A, \* A = m, (A, \ A) (m = m since proper) respecting 6 action · Dignossion - this is a hard fact that A \* Az is perverse and not just derived Uses a lot of deep alg geo.

Trieducibles IC = IC (Gren)



Conclusion · Also works in D-mods for C.
· Versions work for coefficients in C. IF.

Z, but argument is tweeted · Gives natural meaning to G.
· Hints at & Langlands correspondence generally