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NOTETAKER CHECKLIST FORM

(Complete one for each talk.)

Name: KARIT KOZUT Email/Phone: kkozust @ valberta.ca	
Speaker's Name: SAM RASKIM	
Talk Title: Modici of RESTRICAED SHOUKES AND THE CHREGORY OF	(÷
Date: 4 11 19 Time: 11:00 am/pm (circle one)	T
Please summarize the lecture in 5 or fewer sentences: THE SPEKKER DISCUSSED LOCAL SHTUKAS THE LOCAL CONFIDER PART TO BE GLOBAL	
OBJECTS PREVIOUSLY COMSIDERED	

CHECK LIST

(This is NOT optional, we will not pay for incomplete forms)

- -
- Introduce yourself to the speaker prior to the talk. Tell them that you will be the note taker, and that you will need to make copies of their notes and materials, if any.
- Obtain ALL presentation materials from speaker. This can be done before the talk is to begin or after the talk; please make arrangements with the speaker as to when you can do this. You may scan and send materials as a .pdf to yourself using the scanner on the 3rd floor.
 - Computer Presentations: Obtain a copy of their presentation
 - Overhead: Obtain a copy or use the originals and scan them
 - <u>Blackboard</u>: Take blackboard notes in black or blue PEN. We will NOT accept notes in pencil
 or in colored ink other than black or blue.
 - Handouts: Obtain copies of and scan all handouts
- For each talk, all materials must be saved in a single .pdf and named according to the naming convention on the "Materials Received" check list. To do this, compile all materials for a specific talk into one stack with this completed sheet on top and insert face up into the tray on the top of the scanner. Proceed to scan and email the file to yourself. Do this for the materials from each talk.
- When you have emailed all files to yourself, please save and re-name each file according to the naming convention listed below the talk title on the "Materials Received" check list.

 (YYYY.MM.DD.TIME.SpeakerLastName)
- **Email** the re-named files to <u>notes@msri.org</u> with the workshop name and your name in the subject line.

- RASKIM

RECAP IN HARMONIC ANALYSIS:

HELLE ALG C [AUT. FORMS]

IN GEOMETRY:

HAVE MORE SYMMETRY BIC GEOM. SATAKE WORKS OVER X^T , |I| > 1

YOGA (BEILINSON, DRINFELD, V. LAFFORGUE)

EXTRA SYMMETRIES ACCOUNT FOR LANGLANDS DECOMP

(FOLLOWING CADIETTER - LAFFORGIE)

· k = Fg

FROB = g-FROB

IDEA (WEL, LANG) TO STUDY Y(k) FOR Y/k SOME

CREOM OBJECT, LOOK AT

YFR=id Y

EX Y = BH, H MG GP (COMMECTED) /k

U

$$(BH)^{FR=id} = B(H(k))$$

PF LHS IS ÉTIME METIN STACK, CONNECTED, W/ K PT

BG FOR SOME FINLITE G

 $\frac{N.B.}{BH}$ = $\frac{H}{H}$ = $\frac{F_{ROS}}{h \cdot g} = \frac{hg \cdot \sigma(h)^{-1}}{h}$

 \Rightarrow G = H(k)

IDEA APPLY THIS TO IG = LOOP GP FOR G RED, SPLOT/K

(LG = LG)
FROM
BEFORE

DEF · Loc Sht mer = LG/LG "HER "= "HEROHOR PHIC"

• Loc Sht = Loc Sht = LG/LG

NOTATION:

- X SMOOTH CURVE /k (MANGE AFFINE) $\}$ FIXED FOREVER X = X(k) (EG $X = A^1$, X = 0)

LG is BASED AT X (IE t IN DEF IS tx)

$$\widehat{D}_{x,s} = \widehat{D}_{x \circ (S \longrightarrow SPEC(k))}$$

Luc Sht
$$PG$$
 (S) = $\left\{\begin{array}{ccc} P_{G} & \text{on} & \widehat{D}_{x,S} & \text{A} & G-BUNOLE, \\ P_{G} & \text{on} & \widehat{D}_{x,S} & \text{P}_{G} \Big|_{\widehat{D}_{x,S}} & P_{G} \Big|_{\widehat{D}_{x,S}} \end{array}\right\}$

RMK CAN CLASSIFY ISOM CLASSES OF E-PTS OF
LOCSht MER ANALOGOUS TO DIELDONNÉ-MANINE CLASS'M

IDEA STUDY D(LOCSHE MER) OF Q SHEARES (4)

WARNING THIS CAT DOES MAKE SOUSE (BUT SOMEWHAT TECHNICAL)

NEED TO WORK W/ IND-CONSTRUCTIBLE SHEARES, AND

ONLY DERIVED CAT MAKES SOUSE (NO PORVERSE SHEARES)

RMK D(LocSht mer) ?? D(BUNG)

STUDIED BY

FARGUES - SCHOLZE

$$B(G(k((t))) \xrightarrow{j} Loc Sht^{mex}$$
The GP

CLAIM J' ADMITS A FULLY FAITHFUL LEFT ADJOINT
(LLC SHOLD BE ABOUT LOCSHIT MER

WHAT ABOUT XI?

Def Lasht Mer (S) =
$$\begin{cases} Y_i : S \longrightarrow X & i \in I \end{cases}$$

$$P_{G_i}^1 P_{G_i}^2 \text{ on } (D_{KS} \cup \bigcup_{i \in I} D_{Y_i}) \setminus \{x\}$$

$$A : P_{G_i}^1 |_{D_{K}} \cup \bigcup_{i \in I} D_{Y_i} \setminus x \neq \emptyset$$

$$A : P_{G_i}^2 |_{D_{K}} \cup \bigcup_{i \in I} D_{Y_i} \setminus x \neq \emptyset$$

$$A : P_{G_i}^2 |_{D_{K}} \cup D_{Y_i} \setminus x \neq \emptyset$$

$$A : P_{G_i}^2 |_{D_{K}} \cup D_{Y_i} \setminus x \neq \emptyset$$

RMK ALSO HAVE LOCSHE DEFINIED SIMILARLY,

(1)

BUT PG IS A G-BLNOLE ON DX UUDY:

EX 1) IF I=\$, RECOVER LacSht HER

SIMILARLY, IF "YE = X YE", SAME

IE Lasht x X (x,..,x) = Lasht mer

2) Loc Sht $X^{I} \times_{X^{I}} (X + X^{I})^{I} = Loc Sht^{men} \times_{X^{I}} (GR_{G_{I}}(X + X^{I})^{I})^{I}$

WARNING THERE IS NO MAP

Loc Sht XI - Loc Sht mer

ISSUE: THERE IS NO MAP $D_{x} \longrightarrow (D_{x} \cup D_{y}) \setminus \{x,y\}$

PICTURE

Doubly Doubly X

Q; GLOBER / LOCK SHITUKAS

6

A: X SMOOTH PROT

∃ Shtx(X) -> Loc Sht FETT : F -> Flox

(EXERS) THIS MAP IS FORMALLY ÉTRIÉ

2) DEDUCE "LOCK MODEL" STHEMENT FROM SOPHES TACK