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www.msri.org

NOTETAKER CHECKLIST FORM

(Complete one for each talk.)

Name: KARIR Kozia				Email/Phone: Kkozwle valberta.ca					
Speaker'	s Name	:_ So Pit	IE I	YOREZ					
		OHOMOZO				OF	SHOU	KAS	
Date:	4 , 0	9 19	٦	ime: 9	: <u>30</u> (am)/ p	om (circle o	ne)		3
Please su	ummari で	ze the lecture	e in 5 ò	r fewer se	entences:	HE SI	THE	SPACE	
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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
 - Blackboard: 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

LOCK MODELS

Sht IN NOT SMOTH IN GOVERN

WART "REPUEEMENT"

Replies ment "
$$G = \{ (\{x_i\}, \{\xi_1 - - - \}, \xi_2 \cong \{\xi^{TRiv}\} \} \}$$

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GRIN C GRI PARAMS V.B. W/ MOD'N BOD BY W. W & REP (GI)

GRIN D GODI = RELATIVE VERSION OF L'G = "GILT"

I Zuix. c XxXI HAVE

Lockey HAS EQN IT ti,

t: = EDM OF DIVISOR X=X;

Toox. = lim Tu.x.

Anso HAVE G = RESTENIX /XI t per version of GItI/t"

Good = lim GINEX

$$G_{20}D_{T}|_{X^{2}\setminus\Delta(X)} = L^{\dagger}G \times L^{\dagger}G \times X^{2}$$

$$G_{20}D_{T}|_{\Delta(X)} = L^{\dagger}G \times X$$

Hk_I =
$$\{((x_i), \xi_1 - \cdots > \xi_2)\}$$

TRIVIALIZE

 $\{\xi_2 \text{ on } \xi_2 \text{ on } \xi_2$

CAN MISO DEFINE HKI,W AND [GOO] GRI,W]

ON GRI,W, THE LETTON OF GOOD FACTORS THROUGH Some GInix

EI, w is Lock move must

EIN IS SMOOTH OF REL. DIM. (Zu:) DIM(G)

P SMOOTH?
$$\int Z$$

$$Z = \left(\mathcal{E}_{L} - \frac{1}{Q} \right) \mathcal{E}_{Z} \cong \mathcal{E}^{TRW} \left(\mathbf{x}_{i} \right)$$

$$\text{OUSR } \sum_{i} \mathbf{x}_{i}^{TRW}$$

PROP

WHY?

+
$$\mathcal{F}_{2}|_{\Sigma_{n:x_{i}}} \stackrel{\sim}{=} \mathcal{E}^{TeV}$$
, extend \mathcal{L} to \mathcal{L} on \mathcal{L} or \mathcal{L} or

IE, P IS THE BOUNCITER OF

BUNG,
$$\sum_{i:x_i} \times_{X^I} S \xrightarrow{b_i} Bung \times S$$

$$b_1(\mathcal{F}_{2,d}) = \mathcal{F}_2$$
 $b_1(\mathcal{F}_{2,d}) = (\mathrm{id}_X \times \mathrm{FeoB}_S)^{\sharp} \mathcal{F}_1'$
 $b_2(\mathcal{F}_{2,d}) = (\mathrm{id}_X \times \mathrm{FeoB}_S)^{\sharp} \mathcal{F}_1'$
 $\Rightarrow P \rightarrow S$ Smooth \square

3

(X~N)I

$$SAT_{I}: REP(G^{I}) \longrightarrow P_{G_{\infty}D_{I}}(GR_{I}) \qquad (COPF_{I}) \qquad (COPF_{I$$

DEF
$$\mathcal{H}_{\mathbf{I}}(\mathbf{W}) := \mathbf{H}^{\circ}(\mathbf{P}_{\mathbf{I},\mathbf{W}} \mid \boldsymbol{\varepsilon}_{\mathbf{I},\mathbf{W}} \mid \boldsymbol{\varepsilon}_{\mathbf{I},\mathbf{W}}$$

IND-CONSTRUCTIBLE SHEAF ON (X-N)

THIS IS FUNCTORIAL IN W

PROPERTIES

•
$$\mathcal{H}_{\varphi}(\mathbb{I}) = \mathcal{H}_{c}^{\circ}(Sht_{\varphi,N}(E))$$

= $C_{c}(G(F) \setminus G(A)/K_{N}, \Lambda)$

COMPATIBILITY WITH FUSION
$$\varphi$$
 $I \longrightarrow J$
 $EX I = [1,2] \xrightarrow{\varphi} [1] = J$
 $GI_{1,2} \times X$
 $GI_{1,2}$

$$SAT_{[1,2]}(W_1 \boxtimes W_2)|_{\Delta(X)} \cong SAT_{[1]}(W_1 \otimes W_2)$$

· HELKE MOTION : CHOOSE VE XIMINA

GET AN ACTION

$$T_{V}: C_{c}(G(O_{V})\backslash G(F_{V})/G(O_{c}), \Lambda) \rightarrow BNO\left(\mathcal{H}_{I}(W)\Big|_{(X\sim NOV)^{J}}\right)$$

PARTIAL FROBENIUS: JCI

$$X_1 \xrightarrow{\text{kso}^2} X_1 \times \text{id} X_1 \xrightarrow{\text{kso}^2} X_1 \xrightarrow{\text{kso}^2}$$

THE OPERATOR $S_{V,v}$ $v \in |X \setminus N|$ Dea(v) = 1 $V \in Rep(\widehat{G})$

1 NW COEV (VOV+) NW N INW

NBH,(W) $\rightarrow \wedge \otimes \mathcal{H}_{\tau}(\mathsf{W})$ OH [V]x (X-N) = (X-N) | 11111 511 HIRLIGHT (18W) HIGHI (18W) COEV HIJUI ((VOV*) NW) HIIII ((VOV*)WW) SIL FUSION III FUSION Fig HISZUI (VOVON) HILZJUI (VOV*OW) Get $S_{V,v}: \mathcal{H}_{\tau}(w) \longrightarrow \mathcal{H}_{\tau}(w)$ 1) (S=T)Sv,v (x \ NU[V])] = Tv (hv,v) 2) CONGRUENCE PELM (EICHER-SHIMURA) DIM(V) (-1) (F 253) 0 5 NDIM(V)-i on Hight (VAW), on [v] * (X=N)]