

17 Gauss Way

Berkeley, CA 94720-5070

p: 510.642.0143

f: 510.642.8609

www.msri.org \*

## NOTETAKER CHECKLIST FORM

(Complete one for each talk.)

Name: KARO KOZIOZ Email/Phone: KKOZWl Qualberto, ca
Speaker's Name: XIN WON Z HO
Talk Title: LOCK LANGILLOUS PARAMETRIZATION AND LOCK - COWBAY
Date: 4,12,19 Time: 9:30 (am)/pm (circle one) Companishing I
Please summarize the lecture in 5 or fewer sentences: THE SPEKKER PRESOURCE  A THM KBOUT THE IDENTIFICATION OF CELTIMAL EXCURSION
CHERATURS AS HECKE OFFRATORS. PARTS OF THE PROOF
WOLE DISCUSSED, MAKING USE OF COHOMILOGACK CORRESPONDENCES
CULCATION

## **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 3<sup>rd</sup> 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.

## COMPAT IBLLITY

- Zw

TO DG

- E-S RELH
- 180 S=T
- · CONSTRUCTION OF LOCAL OXCURSION MG
- · L/G C

NOTATION . X/k CURVE

- velx perg(v) =1
- · WILL COMESIOER SHTUKA W/ LEVEL NV
- · y e X , y T e X T
- WEREP(GI) ~ X:1 RES, (W)
- $\Delta_d = FROB^d \circ \Delta : X \longrightarrow X^T$   $d: I \longrightarrow Z_{\geq 0}$

HAVE COMM. DING.

DETIMES EXCURSION OPERATOR

$$S_{n,T,\chi,\tilde{1},\tilde{8}} = Z_{n,T,\chi,\tilde{1},\tilde{8}}$$
 As operators

on 
$$\mathcal{H}_{\{x\}}(1) = C_c(\Xi G(F) \setminus G(A) / K^{\vee}K_n)$$

2) 
$$n=0$$
,  $T = \{1,2\}$ ,  $S = (FROS, 1)$   
 $X : 1 \xrightarrow{COPEV} V \otimes V^{*}$ ,  $Y \otimes V \xrightarrow{EV} 1$ 

4) 
$$Z_{n,I,x,\overline{s},S}$$
 Comparishe with exect orthology AS

 $n = \sqrt{k}$ 
 $(n > \sqrt{k})$ 
 $Z_{n,I,x,\overline{s},S}$ 
 $Z_{n,I,x,\overline{s},S}$ 

TASIDE: 
$$\exists Xlk \text{ SMEOTH PROT } wl \pi_1(X) \longrightarrow \Gamma$$

AND  $\exists \Gamma \xrightarrow{\rho_1} SO(8)$ 

EMERYWHERE
UNIRAM'O

 $vl \qquad \rho_2(Y) \sim \rho_2(Y) \quad \forall Y \in \Gamma$ 

 $T \subset C(G(F)\backslash G(A)/G(D)) \qquad G = SO(8)$ B SHOULD BE QUADRATIC / TT, · Arms F Spet. 82, --. 84 & TT (Y; ET, pfe E[G"]G SHOULD DISTINGUISH P1 MOD P2 Q WHAT IS IT? EXCURSION ALG = HEXE ALG FOR GLM, Un, Sp2n Sht I, nv, (W) PE Shty Sht I.W) (x-v) I Sht I,w Shtw | D(v) NAME (WIN) = NAME (E SATI(W) & TIN, \* ) RFc(Sht, yt(W,n)) -> RFc(Sht, y ) -> HI(W)|E E: Sht, w -> [Gn, V GRVW] Lan MODE

(4)

TT W EXTEMOS TO X IM TWO CASES G(F) G(A) /K" K" XI 1) W = 1G(F) (G(A)/KrG(Ov) XXI 2) n=0  $\Rightarrow$   $\epsilon^* SAT_{\overline{1}}(W)$  is ULA (UMINERSHILY LOCKLY)  $\Rightarrow \psi_{\bar{t}}(W,0) \cong \epsilon^* SK_{\bar{y}}(W) = F_w$ CONSIDER THE CASE  $S \mapsto (FRUB, 1)$ ,  $I = \{1,2\}$ ,  $W = V \boxtimes V^*$  $F_{\nu} = \varepsilon^* S_{\kappa_{\overline{\nu}}}(1) \longrightarrow f_{\nu} = \varepsilon^* S_{\kappa_{\overline{\nu}}}(V)$ ST Mx Fvixvx FROD FVEV = FVEV

(5)

$$\begin{array}{cccc}
m_{\nu} & \mathcal{F}_{V^{*} \approx V} \\
\downarrow s \\
\mathcal{F}_{w} & \longrightarrow & \mathcal{F}_{1}
\end{array}$$

## COHOMOZOGICA CORRESPONDENCES

SUPPOSE

IF 
$$\xi$$
 is proper (schemer),

A CON CORR

 $\xi^* f \longrightarrow \dot{\xi}^! \xi_f$ 

F. F. - 916

( RENSON!  $E^* f \rightarrow z^! G \Rightarrow f \rightarrow \xi_* z^! G$   $\Rightarrow f f \rightarrow f \xi_* z^! G$   $\Rightarrow vse georgeness$ 

- · CAM COMPOSE COH\_CORR.
- · CAH PUSHFORWARD
- · CAN PULBACK IN CERTAIN CASES

CAN USE THIS TO CRET COH CORR OF THE FORM  $G(F)(G(A)/_{K} \times G(C_{V})/_{G(O_{V})}$   $G(F)(G(A)/_{K'G(O_{V})})$   $G(F)(G(A)/_{K'G(O_{V})})$ 

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