

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:} Justin Hilburn	Email/Phone:jrhil47@gmail.com
Speaker's Name: Dennis Gaitsgory	
Talk Title: Picard-Lefschetz oscilla	ators for the Drinfeld-Lafforgue compactification
Date: <u>11</u> / <u>20</u> / <u>2014</u> Time	: <u>2</u> : <u>00</u> am pm circle one)
List 6-12 key words for the talk: <u>Eisen</u> Pseud	stein series, Drinfeld-Lafforgue compactification, do-identity, Miraculous space, Vanishing cycles
Please summarize the lecture in 5 or fewer sentences: The diagonal map from Bun G to Bun G X Bun G has a natural	

Ine diagonal map from Bun_G to Bun_G X Bun_G has a natural compactification \bar{Bun_G} Recently Simon Scheider computed the intersection cohomology sheaf of \bar{Bun_G} in terms of the vanishing cycles of a certain one family degeneration.

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.
 - <u>Computer Presentations</u>: 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.
 - <u>Handouts</u>: 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.

SP Gaitsgoy - Picerd Letschetz oscillotos for Dunkeld-hethorge compachilitechn verlig need Ind Coly N schneider Dined (Bun 6) LG QCh (Loc Ers 6) Duendier ?X OIDserve Need inversion for pray or cuten involution TV for an armtrary veducher grup. still documit work !! Map 16 a prop Jp Bung Bing Gis: Prid (bung) -> Prid (hing) 119" Zo O Ens OZM = Eis Opposite peed noter idea: Y1 Y2 Drud (r) = Prod (r2) 7 -> T (T:(4)00-Fractors Correspond to lancels Q.F. 2 in Drod(YIXT2) P 4

Ex Y = Y1 = Y2 $Id = D_{\#}(w_{Y}) \qquad \Delta : Y \to Y X Y$ Prink 14 : SI (Ky) conspires to a forchor Ps - Id: pmed(Y) -> Dued(Y) Ponedo-identy Ret Y is nitrolow of A = Id 13 9 self equivalence. Ps-Id (60) = Ky [?] Ps-Id (Ky) = So [?] Ps-Id (Ky) = So [?] Ps-Id (Ky) = So [?] EK V/Gm. Also Po-Id = 1 This Dung 13 muraculous Tim (15Id) 0 65 = 65 0 (Ps-20) hand 66 C C Normal Eis should be East. Will use pris whiching from no ori 50 = 10 verd o 60; 0 0 pmp = 8 + 09' The ky-Id acts as Ro on Cuspidel guys. D (Amo) cusp Conce than looking at interaction of Proden's Thin and Ps-Id

10 wonder ful. Compact licetions bung in Bung i Bung X Bung X Bung C proper want to understand if CK pung) GXG C Vinba ST Viib 3 Vin 30 Ex G= Str Kinby = Matzxz 6 = Vinbolt DeLaf & classifies mys from X to Vinber that generically land in arco Vinber GXG Bung = DrLif /T | Bing -> BrLif . May 1 -> bing;

Want 4 (Kprlet) & prid ((PrLeto) 0) Banz 1A 2 e oscillat $gr \psi = (\delta = V) \oplus (K \oplus K)$ V studyt ? In rep of 54 PrLAG = (M, M2, M, -) M2, +0) Milme are She - bunnes (Bright) = (MI M2, MI = M2 1 has rock 1) d = 0 2d he locally closed shiteck of (Prilot) consisting of $M_1 \rightarrow Z_1 \hookrightarrow Z_1(D) = Z_2 \hookrightarrow M_2$ where deg (P) and. Zd clusikes J rd (MI M -> ×1, Dj ×10) -> MZ) (br Luf) X W) As a present will stz gr(4) will be @ fi o Go)* (red)

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I' E Peru (x(d)) equipple un action of Letaletz Str. E local sys on X and E (d) E kru (X (d)) $\longrightarrow \Lambda^{(2)}(z) \in Per(x^{(d)})$ 3 0 = Edixi @ Ex(d) 1(0) (E) D = & Nd; (Ex.) mad is to external extrant power of she constant total beal system on X w Rhers V.

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