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NOTETAKER CHECKLIST FORM

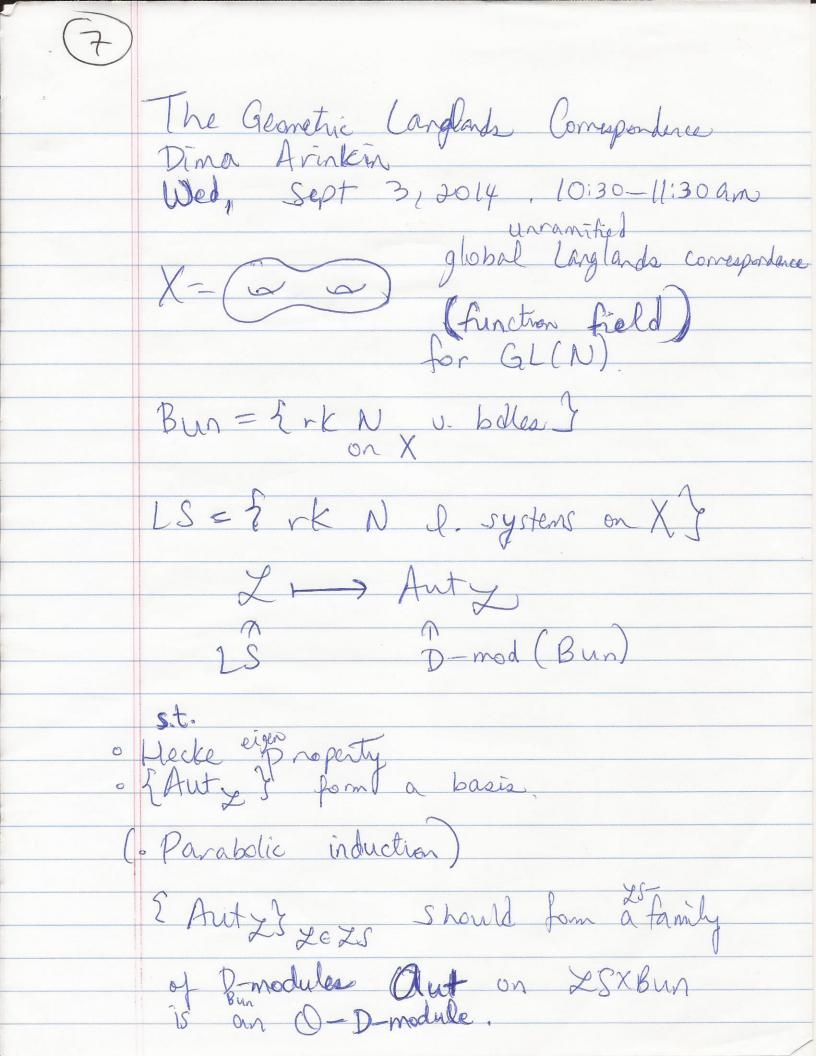
(Complete one for each talk.)

Name: Mee S-long Im Email/Phone: Min 2 @ Illinois. edu
Speaker's Name: The Avinton
Talk Title: The Geometric Langelands Comespondence
Talk little:
Date: 9/3/14 Time: 10:30 (m) pm (circle one)
List 6-12 key words for the talk: properties of the Geometric language
List 6-12 key words for the talk:
correspondence, generation Sataka correspondence.
Please summarize the lecture in 5 or fewer sentences: A rinkin defres rk N vector
local system on X. He describes touten Hecke
eigensheades Heile category and geometric
Satake equivalence and describes when the category of
grass coherent sheaves on local systems of G dural Ist equivalent
grasicoherst shewes on local systems of G dual is equivalent to P-modules on Grector burdles.
CHECK LIST

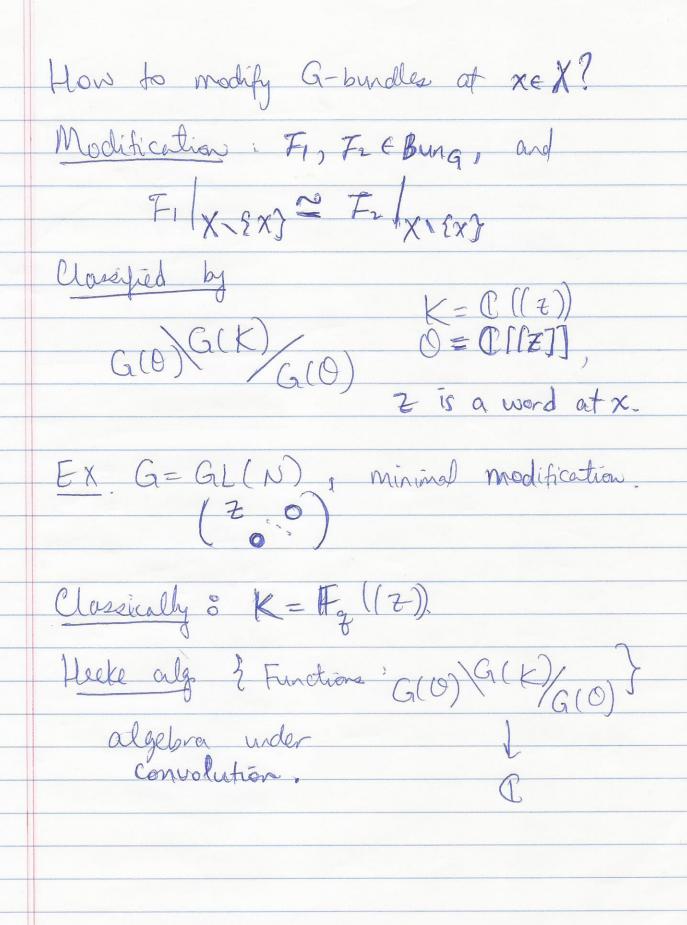
(This is NOT optional, we will not pay for incomplete forms)

- 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 <u>PEN</u>. We will <u>NOT</u> 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.

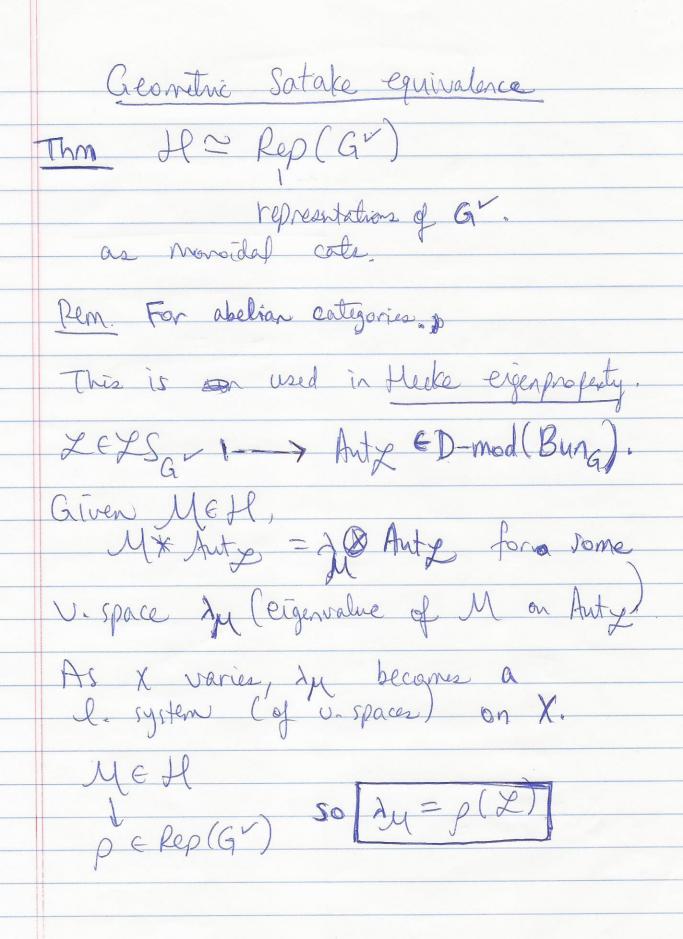
 (YYYY.MM.DD.TIME.SpeakerLastName)
- Email the re-named files to <u>notes@msri.org</u> with the workshop name and your name in the subject line.



Get a functor Q Coh (25) -> D-mod (Bun) LS × Bun P2, * (Aut @ p,*(-)) LS Bun Plrive everything! (Agive) GLC: This is an equivalence Other groups G = reductive group / C Gr = Larglands dual of G Bung = { G-bundles on X} LSGr = { Gr-local systems on X} Aut is LSgr - family of DBung mods. giving en equivalence QCoh (ZSGV) -> D-modules (Bung)



Hecke category: Gr = G(K)/G(0) $G(K)^2G(0)$ affire Grassmanian Il := D-mod (Gr)G(O) = D=mod (G(O)/G(K)/G(O)) If is a woroidal category of under convolution #: Hexpe > He Il acts on D-mod (Bung) Informally : {(F1, F2, F1/X15X)} Bung Bung type of midiskration Meglacte as G(0) G(K) (G(0) P, ,* (P2 (-) & ~* (iy))



Example: G=GL(N) = GV minimal modification & E (G(K)G(O) 8mm e H Standard e Rep (G) · QCoh(LSgr) N D-mod (Bung)