

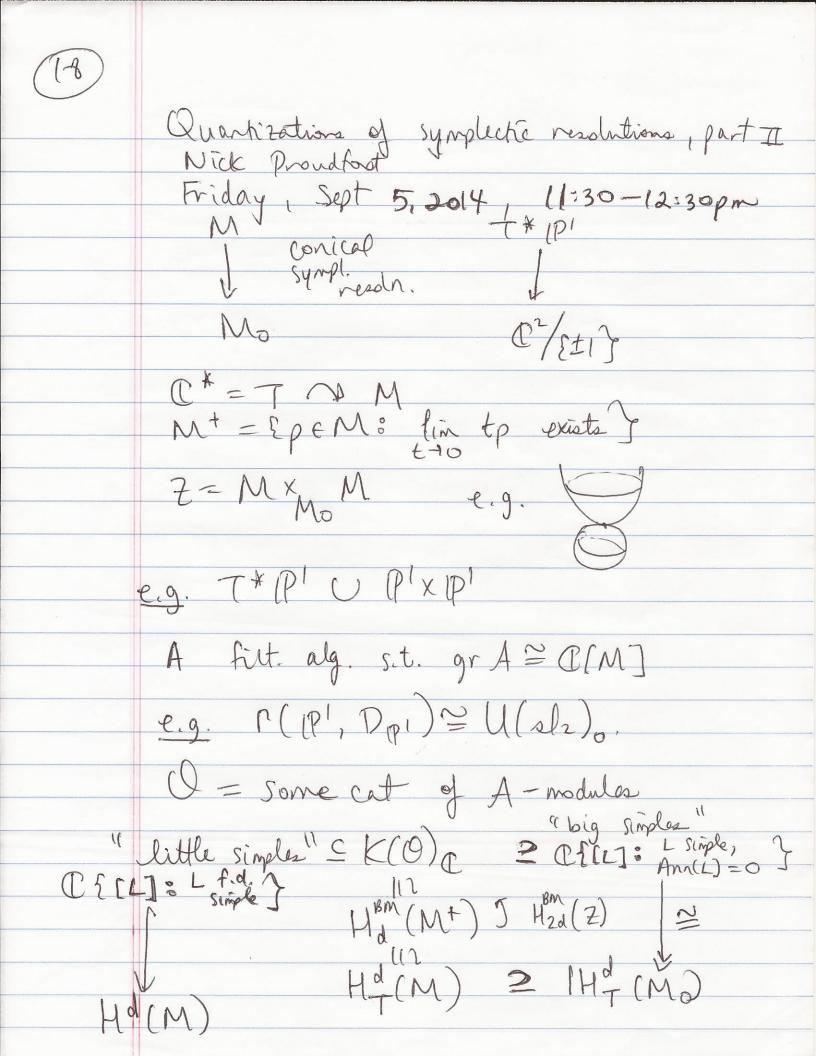


line.

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## NOTETAKER CHECKLIST FORM

NOTETAKER CHECKLIST FORIVI
(Complete one for each talk.)
Name: Mee Seong In Email/Phone: Mim 2@illinois.edu
Speaker's Name: Wilk Proud Poot
Talk Title: Quantizations of Symplectic resolutions, Part II
Date: 15/14 Time: 1:30 am/ pm (circle one)
List 6-12 key words for the talk: Symplectice resolutions, dual pairs, quive
Please summarize the lecture in 5 or fewer sentences: Provalent will give an
introduction to the duality arising in symplectic resolution
linking two throws geometric Constructions of
anide representation and the records in Sateta
legis ivalence.
CHECK LIST
(This is NOT optional, we will not pay for incomplete forms)
The land of the second of the
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
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 notes@msri.org with the workshop name and your name in the subject



Conjecture (BLAN): D. O is Koszul Ex i) t\*(G(B) 0000 (BGS)

ii.)  $\lambda \geq \mu$  partitions of r  $N_{\lambda} \geq N_{\mu}$ Xxx resolution of stice to Nxx inside Nx. 9 2 singular block of parabolic Slr BGG cat O parabolic (Loser, Webster)

Koszul by

Koszul by

Hilb (C2/2k) M(k,r) = I tors. free sh. on P?

framed at or, I

rkk, cz=r (Costul: Chang-Miyachi, RSVV (general)
iv) Hyperforic varieties (BLPVV) D 3 M! s.t. O! is Koszul

Anol to O,

Mi Ex. [.) T\*(G/B) dual fo T\*(G'/B')
(BGS) ii.) Xzp is dual to Xptzt (parabolic - singular duality)
(Bachelin)

(iii) H(k,r) dual to M(k,r) (RSVV) (V) hypertoric vars. are dual to other hypertoric vars. (BLPW) 3. O duel to O' =) I bij.

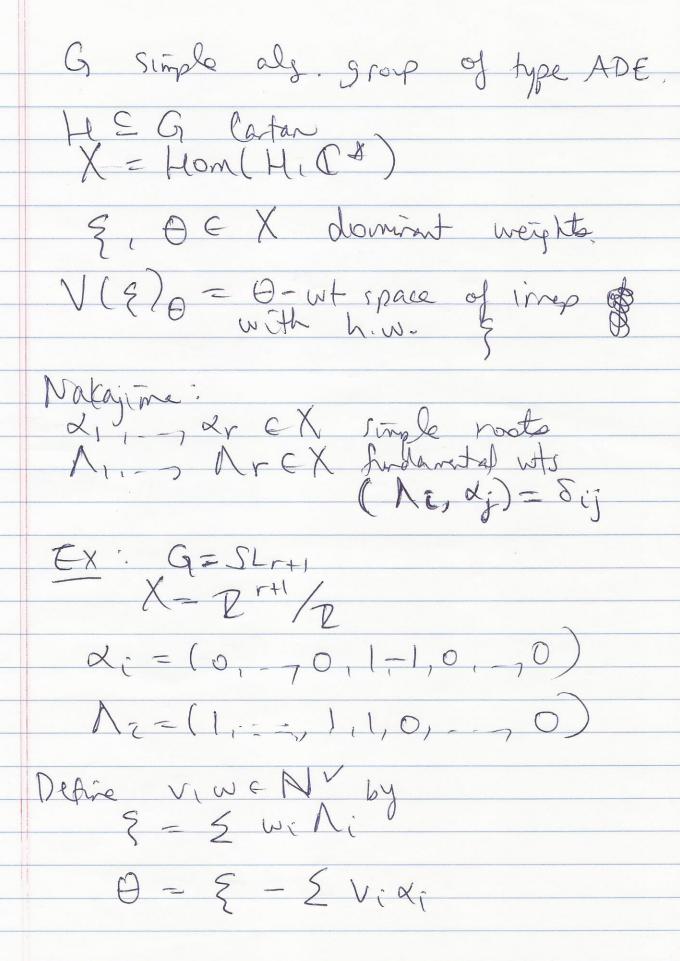
{ Simples in O } ( Simples in O! } big simples (>) little rimples little (>) big.

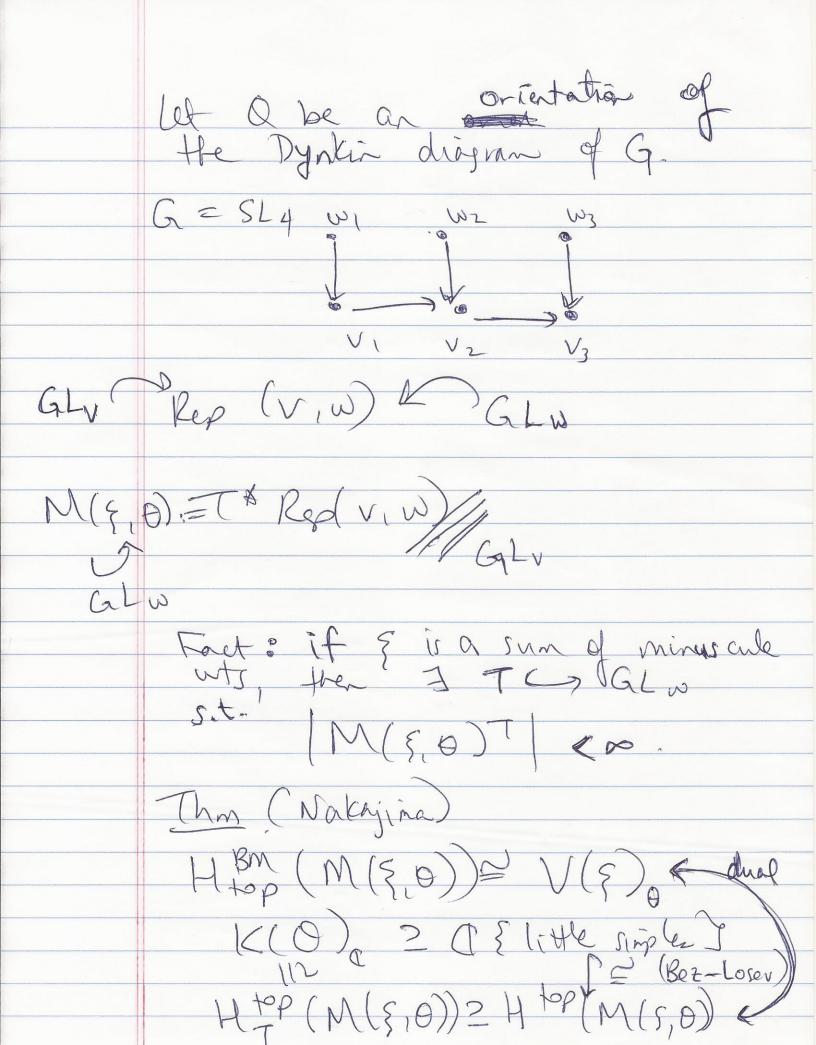
Upshot: if M is dual to d then Hd (M) ~ Of[L]: L little simple) = Cf[L1]: L! big simple} EX. M=T\*P2 = X PB = M(3,1) M=TIT- THE

NO = Spec C[T\*IP2] = Inilpot. 2x3

matrices

d vk < 1 = C2/23 = M! dim H4(M)=1 dim H4(Mo)=2 P(3,1) 07/2= Mo din H2(M!)=2 din IH7(Mi)=1

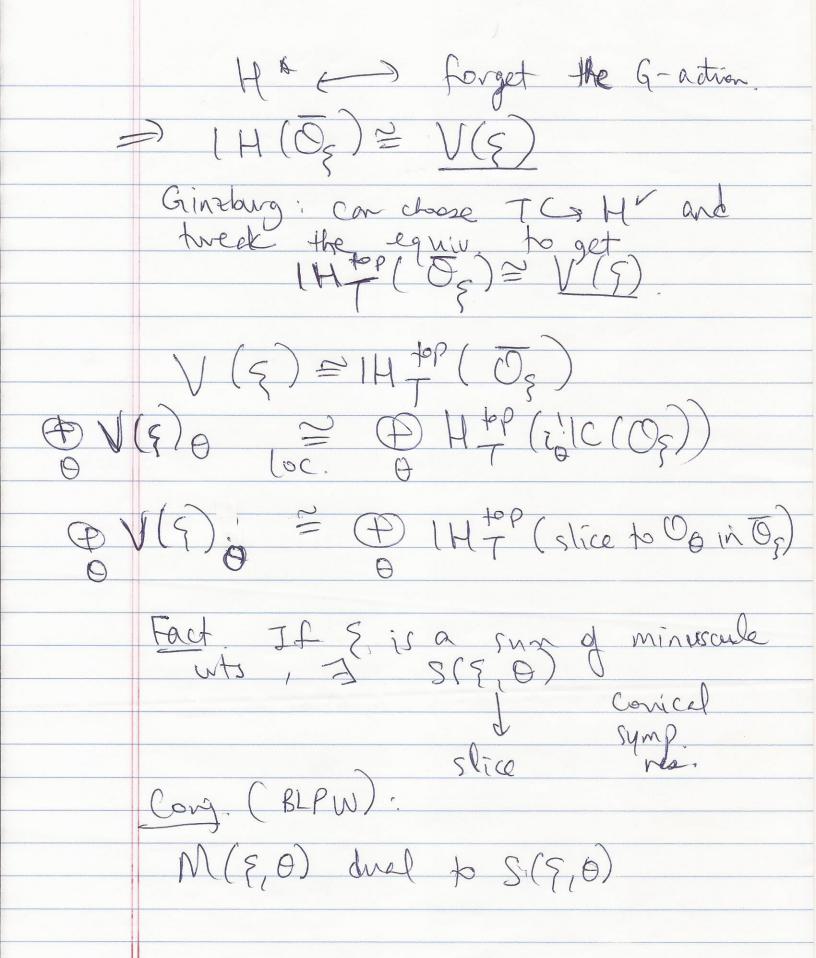




H = G Langlards dual to H = G Gr := Gr ((2))/Gr[12] affire Gr. for Gr. X=Hom(H, C\*) = Hom(C\*, HV) HV((z)) G ((+)) HEGYEGY[[Z]]OGr. EX: GrH = [PF: FEX] Let Os := Gr[17]. Ps Thm (Ginzburg, MV): Perus show (A) Rep (E).

Grupot Support Support of V(E) simple report in)

IC (Os) (A) V(E) simple report in)



So  $H^{top}(M(\xi,0)) \stackrel{\text{dual}}{\leftarrow} H^{tp}(slice)$ And  $I \stackrel{\text{dual}}{\leftarrow} H^{tp}(slice)$   $H \leftarrow M(\xi,0) \cong V(\xi)_0$   $H \leftarrow M(\xi,0) \cong V(\xi)_0$ In type A, 3 partitions 2, post. M(q0)= Xm (Maffei). S(E,0) = Xpt xt (Milovic-Upona)