

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: KAROL	Kozioi	Email/	Phone: <u>k</u> k	szwl@u	alberta, ca
Speaker's Name:	CHARLOTTE	CHAM		···	
Talk Title: DR	MFQ05	LEMMA		*	*1.0
Date: 4,10,	<u>19</u> Tin	ne: <u>9:</u> 00	_am / pm (ci	rcle one)	
Please summarize th					
DRINFODS					
PACTORS	CHECKETRIC THROVGH			Or A	PRODUCT

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 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.

· X SM. PROJECTIVE CURVE / Fg

 $F = F_g(X)$

 $\cdot \ F_{I} = F_{g}(X^{I})$

y EX GOVERIC PT, y GEON GENE PT

· yI E X I ______, yI _____

X Conx

· y - > Dy

· E/OR FINITE

HAVE SPECIM'N MAP

Sp: 91 -> AT

morphism of scirmes

JI -> XI -> SPEC (FOF-- SPEF)

SO IN PART ICULTR

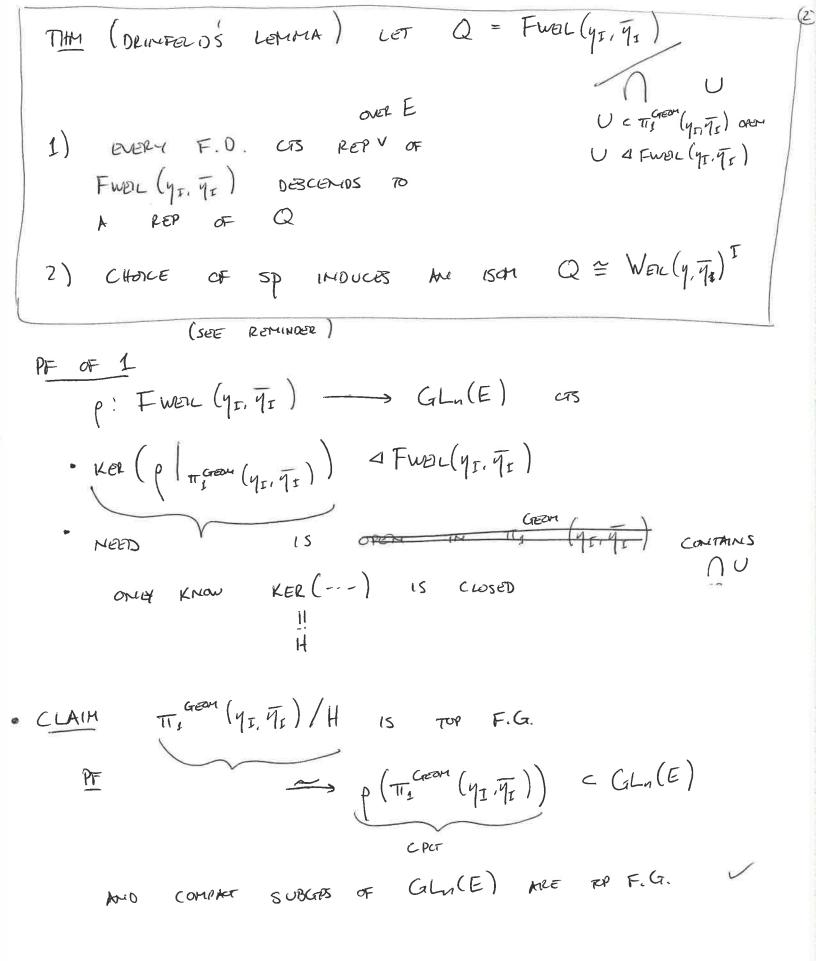
FOF -- OF F

or werl (y, y) I

((SGFROB-11:) | iTH come OFF) CET

$$1 \longrightarrow \pi_{I} \xrightarrow{Geom} (\eta_{I}, \overline{\eta}_{I}) \longrightarrow Fwel(\eta_{I}, \overline{\eta}_{I}) \longrightarrow Z^{I} \longrightarrow 0$$

$$1 \longrightarrow \pi_{I} \xrightarrow{Geom} (\eta_{I}, \overline{\eta}_{I})^{I} \longrightarrow Wel(\eta_{I}, \overline{\eta}_{I})^{I} \longrightarrow Z^{I} \longrightarrow 0$$



IN FACT

COR A F.G COMM RING /E, M AM A THOOD OF FINITE TYPE, THEN ANY A-LINEAR KETTON OF FWEL (95, 95) ON M FACTORS THROUGH Q

$$\Rightarrow \begin{cases} \begin{cases} x \in \Omega & \Omega & \text{man} M = 0 \\ -x & \text{meA n} = 1 \end{cases}$$

$$\bigoplus \cap \cup = \operatorname{Ker}(\operatorname{Fwal}(q_{\overline{1}}, \overline{q_{\overline{1}}}) \longrightarrow \operatorname{wal}(q_{\overline{1}}, \overline{q})^{T})$$

1

LHS

$$\mathcal{E}_{\mathcal{C}}$$

$$\Rightarrow \begin{cases} \begin{cases} \xi^{T} \end{cases} = 1 & \forall \text{ covers } \xi_{0} \to X \Rightarrow \xi \in \text{Ker} \end{cases}$$

@ > WILL PROVE U > KER (---)

(5)

CONSIDER
$$F' := F_g(X \times 7)$$

$$F_I \subset F' \subset F_I$$

$$\iff$$
 FINLITE EXT'N OF F'

 \iff COMER $\xrightarrow{}$ $\xrightarrow{}$ $\xrightarrow{}$ $\xrightarrow{}$ $\xrightarrow{}$ $\xrightarrow{}$ $\xrightarrow{}$

So
$$U \cap Gan(\overline{F_I}/\overline{F_g}(X^*\overline{q})) = Gan(\overline{F_I}/\overline{F_g}(Z))$$

Suppose WE KNEW
$$Z = Z_0 \times y$$
, where $Z_0 \longrightarrow X$ is a const

THEN
$$S \in \text{Ker}$$
, $S: \overline{F_I} \rightarrow \overline{F_I}$ Fixence $F \circ F_g F$

$$\Rightarrow S \in \text{Fixes} \quad F_g(Z_0) \circ F$$

$$\Rightarrow S \in \text{GAL}(\overline{F_I}/F_g(Z)) \subset U$$

IF
$$Z \longrightarrow X \times g$$
 is FÉT COVER, THEN

 $U = A + Weil(g_{\Gamma}, g_{\Gamma}) \implies id_{X} \times FR_{F} \in AUT(X \times g)$

LIFTS TO AN AUT OF Z

CAN PROVE!

LOCAL VERSION

THEM