

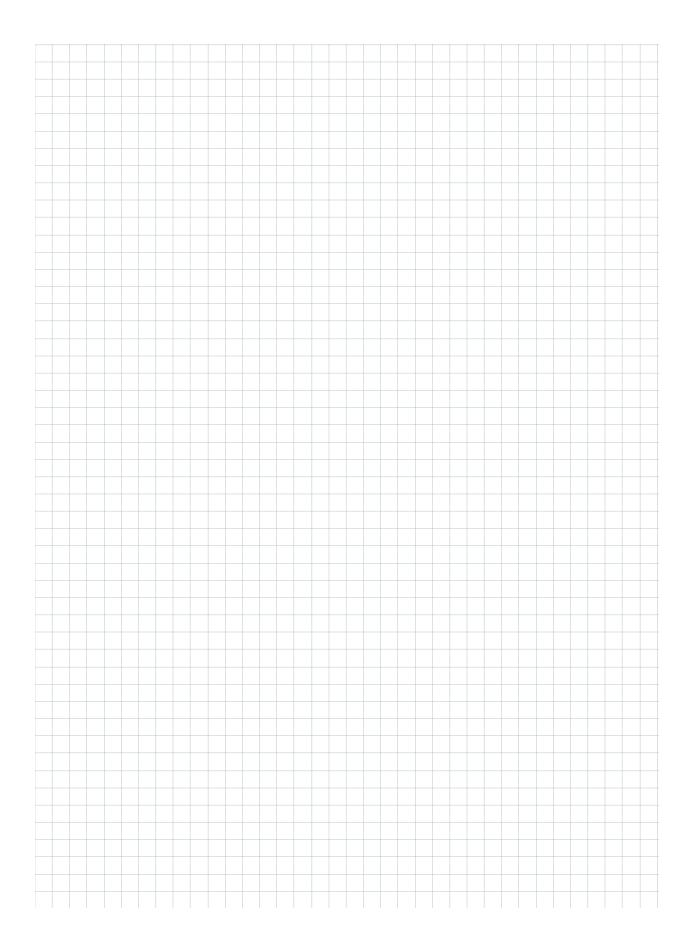
17 Gauss Way

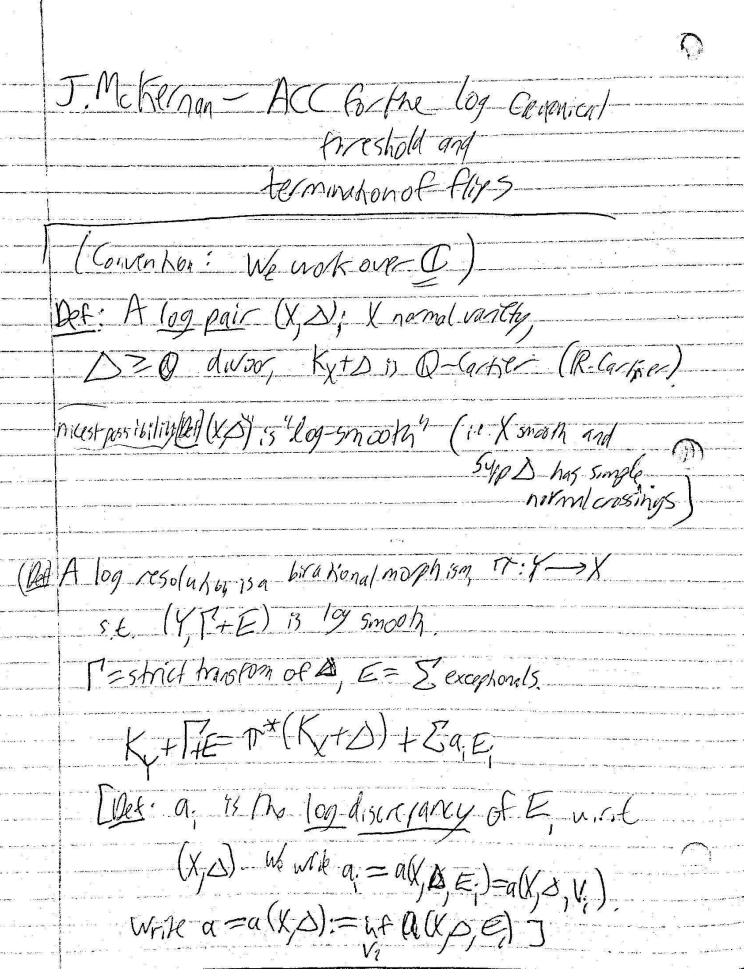
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NOTETAKER CHECKLIST FORM

(Complete one for each talk.)

| Naı | me: Neil Epstein Email/Phone: nepstei 2@ gmu.edu | | |
|--|--|--|---|
| Spe | eaker's Name: James McKernan | | |
| Talk Title: ACC for the log canonical threshold and the termination of flips Date: 05/06/2013 Time: 3:30 am/pm) (circle one) List 6-12 key words for the talk: Please summarize the lecture in 5 or fewer sentances: Along with coauthors, the speaker has established the ACC property for log Canonical thresholds in certain contexts. In addition to this result, he laysout six related conjectures and explains what progress has been made toward each of them. | | | |
| | | | 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 rd 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 line | | |



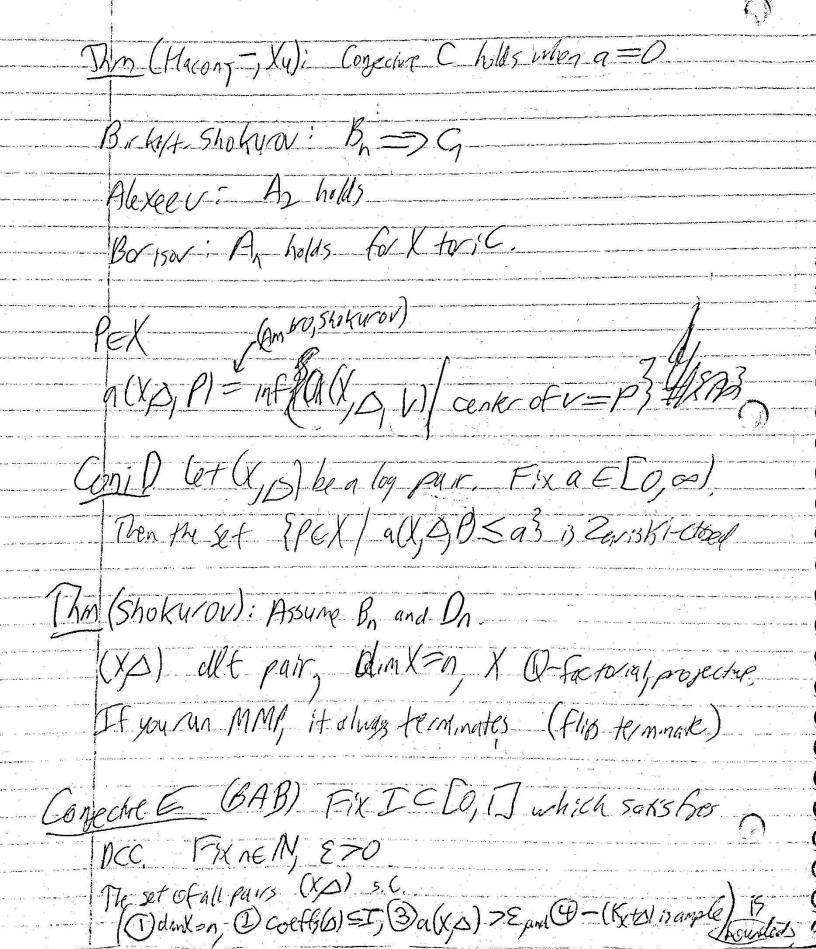


or u >0 (Pet: "og canonxal") Examples: S = cone over a rational curve of degree 1. HHOR SC (Dis 13 a fesolution of 5). log-discrepancy K+E=#K+9:E Then Oot both sides with E -2=Kp=Ke=(K+E).E =(T*K+9E)E=9E=-91 Hence (9=2)

3/22-2 S= contract all frese curves 18 a(K, 0)=? KTE= 11*K+ 2 a, E, (where G represents the -3-cover) Dot honsides with Eq e, when 1515K, $-2+|+|=0+q_1+2q_1+q_{1+1}$ Answer: $q_0 = \frac{k+2}{2k+3}$ $q_1 = \frac{k+3}{2k+3}$ $q_2 = \frac{2k+2}{2k+3}$ $-\left(\text{Ade: } a_{i} \in \left[\frac{1}{2}, 1\right] \text{ bi}\right)$

[Example: 1/10 N) sakatos Dac).

Conflicture A (local ACC for log pairs) Fix n, two sets IC[0,1], TCR20=[0,00). that satisfy the DC.C. To, To finite such that whenever you are given; OxeX affine, dmn, ② (X, △) log canonica]
(3) ceffs(6) ⊆ I, and (9 a(X, U) \$ EJ Then coeff(b)=Io and a (XD) EJo. Conjecture B (ACC for the log discrepancy) Same hypothesis, but the conclusion only assets the Conseruce: (ACC for thresholds) Saw conjective but assume J={a}



P)-inotherwords, et somblype of projective Helts of Myset, JAber Alexev: Es holds. Bo now & Borsov hold-in toric case Fultimak gal: Reduce An to En-1 Conflicture F. (Sho KNOV) FIX I Clos I satisfying DC FIXN. FREN S.E., given (H. draws)

O (X, S) KLE, O X Q-factorial, 30 dm K=n, (diagrams)

(4) QA(S) ST. (4) aff()=I, Ider canonical

AUVION GZD 5.6, r(K+0)~0 (local gom) Thm (-, Coscini) Assure Az. wherever the smallest accumulation Pt. of Jis Zl. Assure C3. Man Az. holls.

Suppose not. Then J (X1/01) 5, t. 9=a(X,01) For each in rick O; s,t. r(K+Q) is Carper (a(X1,0:, v1)ef=1ien) $\mathbb{P}_{\lambda}(i) = (1-\lambda) \triangle_{i} + \lambda \cdot \Theta_{i}$ $a(X_1, \Theta_1) \leq a(X_1, \Theta_1)$ May agome a (X, B) est Chart; Assume a(K,O;)=a(X,O,Vi) and a(K,D;)=a(K,D;,Yi), with that assumption, $a(X_i, \Phi_{\overline{a}}(i)) = (1-\lambda)a(X_i, \Delta_i) + \lambda \cdot a(X_i, \Theta_i)$