0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
G. Ellingend,
· Goes bach to Marsusaku (1952).
Ret A abelian variety/k
Te frice.
I'm  Frame C/k, nonsingular, connected. Then I  A: Jc >> A def. ever k.
Freebin  We have $9(c) = den J(c) \implies din A$ We have $9(c) = den J(c) \implies din A$ $g$
O Assure know A & P"  We know A & P"  (His grovic hypophus)
By Boni = D Charsing corrected.
Bomi = Charsing Con.
Have canonical map C = FC 7 7.
Hove I as is superine,
Rom B = HJe)=(c) = A. If bo # A. Hen IA W/ ADA 4 W/ # UC & S.T. AI+B= A.

Loch at AIXA >>> A >> 9 Intersed in tr'(c). let af-Ao. Ca = C-a = { X-a/ XFC} Now of at Aon A1. Then Cax {a} S A x A1 Hence TI'(C) = LI Cax(a) = TI'(C) 50 if 1AnAil 7,2 D #(C) not conected! Corradicts a convectobress theorem. (a trich for the rave #1/0 n Ail =1) f. X -> P", X normal variety wy din f(8) > 2. 16 pm hypaplare = D f(H)

arrected. E. Sq 0 00(-nZ) > 0x > 0nZ > 0 + Serre vanishing. repdosy

Prop If UE Propos dose, the U(k) + & (3) for  $\widetilde{A} \stackrel{\triangle}{=} B$ , AThe formula A exc. divisor. Pl Induction on n.  $\#(p^1 \setminus U) < \infty$ . If & v.a. on A, & Ulle) # \$ since l'impirite. book out IT IN (-E) Very ande. friedy many girs q = pm s.r. FSIP" pr U = union of hyperis liver sine Q(-E)/E ~ Q(1 surfaces. Thre creatly friends may bypoplas Then A is def 14. Same W/ E. c pilu. D 7 & many H's def owly. boh or C = An Hn. n Hg, and \$50 Hon. 11 Hor = 1 pr → 3 Hs.T. Unit+Ø.=0 U(4) # & by induer Y = Pe nonsins of the Co Fly (o. G. Pooner) The 35 hyposenfore, St. 8ns Bron-singular. (something about the proved) (it involved J-functions and sieves)