Stoppy.

Frop (Msg) Kähles, general type (CI(T)<1).

Fix we e-2T(CI(M) as a reference

kähler form. Then IFE ((Ms)R)

soch that for woriday >0, if

(woriday) = eq + F wo

holds, then Ric (woriday) = - (woriday),

1.e. wy:= woriday gartisfies Rickeys.com

so wy is Einstein with constant = -1.

Pf. Suppose the conditional of the daim hold. The condition on top forms implies detage = ext det g, locally.

Locally we then also have

-iddlogdet up = -idd (p+F) - iddlogdety

but we know this expression

defines the Ricci form, a global

object, ie. Ric(wy) = idd (p+F) + Ric(w)

The assumption wo 6-2 Tic(h)

qives [Ric(wo)] 5- [wo]

-> Ric(wo) 5 - wo + idd F, fel (yp)

for F=F,

Pic(wy) = -idd p - wo = -wy I

Ruk/exercise. Show converse is true, up to normalisation of y.

Uniqueness. These is at most one soln +0 ZIC(W) = -W } [w]=-ZHiC(h) - PICK Some reference pt wo, [wo] =-2 tric, (h) such that Richard = - wo -then pick F=0 in previous Prop. -the 33 - lemma says that if wo another Solution, wsiwy=wo+1254 -> Rmk/ex said q can be chosen s. t. (wo+1'2) "> e 4 wo - now apply maximum principle (remember Misept) so pick pet s.t. it is a maximum of y => Hesspy =0 => idd 4 15 negative semidefinite at p -> so woriday is "smalleon than we -> more precisely det gyp & det golp and we had let gylp = e q'p' det golp => q(p) < 0 => sop q < 6 Repeat as goment at minimum of y to get Inf 4 20 => 4=0. 0 Sketch of Pf of Aubin- Jav.

-we want to prove thin & solotion of (woriday) se 4 + Fwon.

- idea: continuity authod