18/09/2014. hecture 6 Cerrative in a Kähler manifold. R (\frac{\frac{\gamma}{\gamma_{2i}}}{\gamma_{\bar{z}_i}}, \frac{\gamma_{1n}}{\gamma_{\bar{z}_i}}, \frac{\gamma}{\gamma_{\bar{z}_i}}) = g (R (\frac{\gamma}{\gamma_{2i}}, \frac{\gamma}{\gamma_{\bar{z}_i}}) \frac{\gamma}{\gamma_{n}}, \frac{\gamma}{\gamma_{\bar{z}_i}}). = Rijhe. Right und Remem. av. tersor. T', M & TO, M. TM OR CX rach a. dirribution. Kähln integrable

integral dispiluhm. CX rach In v. budle on m. (0 > [0,0])e,,..,e2n real v. fielde so that. they for. In thought (docal or in frame). $\chi \mapsto \chi^{0} := \frac{\chi - i J \chi}{2}$ XON := VE à JX X = X1,0 + X011. Risher = R(eiger, en, ee). Heili) = Si; n: = = (e: - i dei). $\Lambda_{\overline{i}} = \frac{1}{\sqrt{2}} \left(e_i + i \int e_i \right)$ Sni,, und miting havis fr 716M.

g(n;, n) = 1/2, g(e;-yei, e;+yei). = = = [=] = Sig Since g(ei, Je;) =0. Claim: Rig (ni, Mi) = #Ric (ei, ei). I Q (ni, vi, nj, vi). & ghe Rithe = She Rithe. Some we choose on horis. Rice (ni, nt) = to Rice (e: - rite; e: + rite;) = [R.(ei, ei, ei, ei) + R(ei, i Jei, ej, 25e;)
+ - - -] = [; - R (ei, Jei, ei, Jei). Ric (ei, ei) = Ti=1 R(ei, ei, ei, ei, ei) + Iin R(eijsej, ei, tej) Since (e,,-, Parn) = (e,,-,en, 5e,,-, Jen). Bisectional Conatre & Doesn't exist in Real world.
(Lives b/w hici & Sectionals). Riem: if n,y. g(n,y)=0., g(n,n)=g(y,y)=A, The Scalind water S(x,4) = R(x,4,4,2,2). If spansa,4.

(Q).

N= な(n-iJn), v= な (y-iJg). $R(n, \overline{n}, v, \overline{v}) = \frac{\text{hisection}}{\text{Spen}\{n, v\}}$. \mathbb{A} $\mathbb{Q}(n,\overline{n},v,\overline{v}) = \mathbb{R}(n,y,y,n) + \mathbb{Q}(n,\overline{y},\overline{y},n).$ Het Mis, 5,9) Kähler hue and hisestimb another = 1. 4 Rither = 1 (9i79ne + Bicgus). Ex. (PM, GERL) O. (Pr, grs) +. (B, gH) = . B= \$7ech: 12/<15. w= idTlog(1-11212). The (M, J,g) amplete & Kähler & cent bisectional curative. then Mis we of these! It. My Fry , My coving space (qr, Ph or B). of the service of th

TOMA Achilly, duble forsqut Face. 1. Tu(ToMi) > Terp(v)M desp ((w) = 3+ (s,t) = : xw (s). So, Xu(s) in a Jacobi field, i.e., solves: $\sqrt{\frac{35}{35}}\sqrt{\frac{37}{35}}\chi_{W} = \frac{1}{20}\chi_{W}\sqrt{\frac{37}{35}}, \chi_{W}\sqrt{\frac{37}{35}}, \chi_{W}\sqrt{\frac{37}{35}}, \chi_{W}\sqrt{\frac{37}{35}}$ $\chi_{\mathcal{N}}(s)$. del X(1)

Diser, en, Jeis, Jen haris for ToMy $e_1 = \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} = \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} = \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} = \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} / \frac{\partial \sigma}{\partial t} = \frac{\partial \sigma}{\partial$ $\begin{cases} \sqrt{3n} & e_i(n) = 0. \\ e_i(n) = e_i' \end{cases}$ Xw(s) = xcei (& (ei, xie: -xir(2x,ei) 2x) = (o,ei). 0 = xil - xil (3x)e; 3x,ei hong tel, ... on. = xi - xi R(ej,ej,ej,ei) | 38/2. hema R(epe; , ej; ei) we determined has the -bisection considere. (L113, Tion).

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