bedon 2 UMD 868. 4 4 g Rien, Jamp. $W(x,y) = g(\mathcal{J}x,y)$. Defo (M, w, 9, 5). kähler 8mehre. when dw=0. (1), · dwo snys trut w is symplectic. (1) > The is invariant under g-parallel finiteting. NJ 30 and olw =0 () VJ=0. du (n,y,Z) = nw(y,Z)+ yw(z,x)+Zw(x,y). - w([n,7],2) - w([y,2],n) - w ([z,n],4). 2 g(54,2) + 4 g(52,n) + 2 g(5n,4). = .9(V2(54),2) + 9 (5m, Vn2).

In melve imparibility.

By
$$(\nabla_{x}J)_{y} = (\nabla_{x}J_{y}) - J\nabla_{x}y$$
.

$$= \nabla_{x}(J_{y}) - J\nabla_{y}x - J(x_{x}y).$$

ex get
$$d\omega(n, y, z) = g(t_{x}J_{y}; z) + g((\nabla_{x}J_{x})z_{x}x) + g((\nabla_{x}J_{x})x_{y}y).$$

Se, $\nabla J = 0 \Rightarrow d\omega = 0$.

$$d\omega(n, y, z) - d\omega(Jn_{x}y_{x}, z) = g(z, Jw_{x}(n, y)) + 2g(t_{x}J_{x}y).$$

$$\nabla J = 0 \Rightarrow parallel has prems type?$$

$$d\omega(n, y, z) = multiple for $du(z) = du(z).$

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Holonary. Hula (M, y). . perrall huper v ales loop V. o pullet impri prisers · But A must premer type, so A sact good. V(1) = A V(0). Ac GL (2n, IR) mhu: A E GL(n, q). (AB) EGL(2n, R). Atibe GL(m, 4) 3 Mro Aco(en). To ACGL(ng) no(rn)) A en(n), (nunting). 80, Allo (M,9) C U(n). lu fut 3 Hol(M,g) CM(n) => g kähler. (to be arched his non the M. Holp (M,9) CM(m)). TOM PrE U(947). (g(v, w) = g (Prv, Prw), ∇g=0; Pr €0(7pM). to all of M by protect myser. B

Tw=0 and wn fo; If some Town) =e while is at p delin Jø: Tyn D. hy w(v, w) |p ≥ g(Jv, w) |p. € 52/b=-I:, J=[i o].)
Extant J by p to M. (by) V(52+12-9 5) VJ=0 So (on, 92)) Kählm. 1 Typically: [Int C. O (dim mm). Le (And CN (OlimizM). Calabi Your (=) Hol G Su(n). 23 henna Hodge Hung. Map (Local 25 leva). (M,J) CX and es is (1,1) from defined on. Contraction set M s.t. declin = 0. Then locally If E (2(M) s.t. w/n = 138f. At: dw=0, $d=3+\overline{3}$, $\partial w+\overline{3}w=0$. $\Rightarrow \partial w, \partial w=0$. Doubleant cohom akod $\overline{3}$) on $\varphi^n(m)$ is think types.

x type (1,0). w= DX, ply with O (66) フィ= ラβ· >> ×= Jf, so w= 50f, I is magning to milt. In i Note: This is purely local, so always free on con CX rufled. Faint: an kähler, this can by improved the rglohul.

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