09/09/2014. hechre 3. 25 - lema. hart time: local \overline{M} -lamma on f^{A} . $\Rightarrow \chi$ (1,2)—form clind: $\Rightarrow \chi = 277 f$. $\exists f \in C^{\infty}(\mathcal{F}^{A})$. Note this allows to not with factive nature than 2-fines. So locally, w=g(J:,:) is reduced to furthers. Kähler neld: cpd, no bby. ~> "closed" Goal: global. 25-luna. M claid, kähler. Lema If wis (1,1) for on Mad dwe o, Then \$\infty\$ olso chied & C_1,1). and feco(M).

Then \$\infty = \text{W} + i \(\partial \tau \) where \$\infty \infty \(\mathread{M}\). If & is cloud then (dx=0), the x in [x] Ex] EH* (M, M) To, de Ritam Cohondogy class of &. Thirther vary of Saying this: & is (1,1) - fam ind d-exact, then & is DJ-exact. Drobbeault ethonology them > 5,5 operators. de Rhom cohomology. 0 -> c×(m) d; si(m) -> 0.

de Rhon Cohon. gras Sinite d'union lity. of cum associated spaces is exact, dend the This is no estimates. Kinilaly, in the Dolhearlo Care: $H_{\frac{5}{2}}^{*}(M,\mathbb{C})$, $H_{\infty}^{*}(M,\mathbb{C})$. 20,97(M) 3,-12(M) 3. Præse thans are remally dolf, but in kaller, they are equal. , (dx, B)g = (x, d*B)g. A = dd* + d*d. 1.x.w.x.t.g. $\Delta_{\overline{5}} = \overline{9}\overline{9}^* + \overline{9}^*\overline{9}.$ △)= つず + つかり、 (\mathcal{E}) kaller: Do = Do = \frac{1}{2} A. this says from Std hodge: · K= Ha +dB, But fact (F) was that N(As)=N(Aj)=N(A). By (criffing-finis). $\frac{dx=0}{3x=0}$

(2)

K= HX + AzGX = Hx + 08 6x + 3+ 2 6x assumpy & in d-exact >> 1/k = 0. DAS = A5D do it amodes with G. No, x= 55 Gx. x type (2,2), Gx type (1,1), 3 tgx type (1,0) 28 Gx = + 7 G(2x) = 0. => 7Gx 8-dend. (1,0) tam FGd = Hot 35xG (3x Gx) + 5x) G(5x Gx).

Some G, some haplacies are the same. 8, K= 57746(38Gx)= -25(24654Gx) (1, 1) A luplication: We define, opm a kähler metric (fm) W, we here a ripe to contract wany other. K metrics on M: Choose any fe co(M), too Smull enoth, w= w+ 2+05f. is k wehic.

This is positive from two smel and type (1,1) were that it is compatible with F. 80 >> 'we kaller for. · Converly, hy DJ-lone, my kaller fam . a Sahsfying [w] = [w] in of the firm ~= wait.07f. This kind of prometrication of metrics is not possible with Rilinamian setting the way directions. rock 1. confine etg Det the space of teabler from orbinslager ti. ω flu= { 4€c>(M): N+ 2204 >03. c c>(M). of on he four Ha is corres. & e (1,1) for posture mens & (v, Jv) > 0. I weal V. Comprey to Run Setting: Space of Rein metrics is dially quite nasty!

propulms of so-dim. Space Hw. as propulses of U. The (pi) is not well melvished. P'C>P², P'= Sall angleso lins thingth F²].

Now, Fully D' in bornon coordinates.

homogener coordinates [x:Y]. Embeddin P'C>P2 [x:4] ~ [x2:x4:x2]. durable x and y of mer.
[12x: 7:01, [0; x:24], so henzeno
durable. P'C> P"via [x:4] L> [x":x"Y:...:XY":Y"] Natural metrics in P! Tubini. Study metric in.

Material metrics in P! Tubini. Study metric in.

projective Space: Animy as quitant. So, enhedding pullbuck police matric. Renouheable result: Mw (P) hors a. dure sheet which is the union was all the onetics obtains via pullbuch. letting N > 00 (Analogan to Stone-Werthols). D Fuhini-Souly metics.

Delubramifuld geometry of Kirkler. D'avaloque for grownal M (line hindle & holin. Sechin). How approx by algebraic Descett.

the, Ho approximation wa algo objects. (IT). Relation to grametric PDEs: Mahuchi metic on Aw: (h, k) = Shk dygg roline aesociated to kähler mothe.

Wy. Geodesics of Lo, > complex lunge-lungere eq. conjund asymptotiz to Ricci flow. My vule. Hus anyone sondred Wasserstein Space. of Aw?

6