volume to accuse to the control of t

Rmk @ type (Y, X) = 00 if H'(Y, NY/x @ 5"+1N-1/x) = 0 11 Y: sm. ellipt. come, + Ny/x satisfies "Dioph. cond.". Anold 76; Justis case. (v=1?) @ Veda (83; Main thm (1) for =1. 0 (Kottee 15) K-, N. Ogana 16 -- V=2 T: X ->> B : surj. hol. submersion. dom CCT. TT(X): proj. for TXEB, Y:= 70 (0): Sm. fiber. Free NYX; hol. triv, type (Y, X) = 00 In this one : @ Mainthin (1) -- triv. (= 1x-10x)(xEB) @ Simple prf of Mainthm (i) in this case; SCX: hop. surt as in (ii). Take [S] |x-1(x); top. triv. for X. (X ∈ B) ~ S | π-(x) : ett. div. on π-(x). $\rightarrow S = \pi^{-1}(\pi(S))$ Application to the semi-positivity witerion X: cpx mtd of dim=n. L! hol. line bol, DI, Dz, ..., Dn-1 E (L) C:= MD, Sing. Herm metric in L with analytic sing and thing=∞9 = C. (€ "Bergman type contr.") If IV: c-nbhd s.t. Llv: flat., Then L: sent-positive (i.e. Ladmits a C& Herm metric)

(E max. construction) DOSE-LEAF 1-8368 6 mm ruled x 36

Date

Cor Assure I that Di, ..., Dr. intersect transversely along C, LIC & H'(C, U(1)), satisfies Dioph. cond. L! semi-positive. e.g. (V, F): sm. del lezzo mtd of deg = 1 $(F: ample / V^n)$ PEV: "general". $\pi: X := B|_{P}V \longrightarrow V, \quad E := \pi^{-1}(P),$ L:= T*F®[-E]. Der L! semi-positive §2. Definition of Obstv. class. and type (Y, X) (To V: tub. nobb of Y, Guff. small) 15%; open cov. of V, Uil= VinY. W== (wir): det. tunc. of U; on V; s.t. dwilt= = Tie. Jwelte. Zi: coord of Ui Tik. WR = W; + I de(Zzo) + fij, d (Zj). Wid () T tri, w Dwil Jim (dwilzie) (∈ H'(Y, NY/x® S²Ny/x) U, (Y, X). Face U, (Y, X) =0 => One can take 1(V; W;) 4 5.T. Tse. WE = W; + = 123 fes. 2(8;). W;

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U2(Y, X) 8 = [[∑ -H 4] ∈ H(Y, NT/X P S3NT/x) Face @ "Un (Y, X) =0": settlet does not depend on IW. 4. H'(Y, NY 9 5 " N 1/2) @ Either 3n21 s.t. Un(Y,x) =0.] = type(Y,x) &= n n21, Un(Y,x)=0. Ruk Iyidet ideal of Y (COx) ~ 0 - TA/Is - OA/IS - OA/IA - 0 § 3 Outline of the prf of Mainthy 1 W; 4: as In \$2. (Tik. We = Wj + I taj.d. Wid.) pot of Mainthun(i) (c.f. pot of Veda's thin) Solve a "Shirder type functional equation" $W_j = U_j + \sum_{|\alpha| \geq 2} F_{j\alpha}(z_j) \cdot U_j^{\alpha}$ to construct. (4; 4 (Fi with duj: det. tunc. system of Vi in Vi,
Ui = Tik. Uke on Vik Existence of "nice" IFix Un = 0. Conv. of X 1-> X + I | | Fid | w X d = torsion cond. Date