Arnol'd's type thms on a nobel of a come.

[4:45-15:45, and gusy constr. of 13 surface) Goal -- to give a "uniformeatin" result
for the cpx str. of a small night of a
cycle of P's. or, to give "Arnol'd's type thm" for Motivation

"Gluing conser. of k3-sunt" by very BlzP2 (#2=9.),

1/2 - 102 with 1628 when the care Co CIP' with 10028 Schedule (\$1 Main results, examples.

\$3. Outline of prf. 194 B/90 P2 - case. S: qpx surt (non-sing) Cha ode of Prs. i.e. / C: cpt epx subvar, at most nodal (s.N.C.) Agrie Ness:= [C] | c ; top. triv. Pic(c):= (Top. tol. hol. live bills { L naturally $H'(C,C') \cong C^*$. Def $L \in Pic(c)$! Unitary-flat \rightleftharpoons |t(L)| = 1 (i.e. $t(L) \in U(L)$) · Dioph. Sof E(L) = e2TFI.O for 30 ERIQ; Dight inat I want

No.	2.	
Date	•	

dom = 2 and 1, for simplicity. Thun (Granere 62)

S: cpx su-f.

C: cope analytic rub C 5, sm (for si-pliving).

and dy Ness <0 => c on be contracted,

< months o, 4-49(c) f => C admirs a holitub.

James ubhd ,,

196 --- Arnolisis than

Arnol'd applied lineariety technique in the prot. of Siegel's lineartion than

(F.G) "(hear: ze" Fand G!

Veda generalized Amolds, thm.

o classification of (5,5) with Nys EAC(c), when

CISO

Game a sufficient cond, "Dioph" + U = > C Cond, "Dioph" + U = > Co for C to admit a psd-flat nbhds system

> (W. (w. t) = 3(g. w. DVe ≈ CXS'; Lew-the

Za(w, 2;) = ??

Studied a robbe of a vot come with a vode C

weak)

when Nys ENE(c) - 1 wenty flat i

17 K-, nodal analogue of [Veda 83]. Thu (k-17) 5: sm. sud

C: agde of P's, . Nos: Dioph => Cooming a pro- Hat white gran Harris and lines

Veda 83 c: cycle of 19's "Wj=tjawa". not only withwe Outline of pot Take a nond V of C ins. → lefine a class. $x(v) \in H'(V, Ov)$. which reflects the difference between the gox sors of Vand ~ Want to show; < <(V)|w = 0

EH'(W,OW) of a ubbl of c by showby w: noble of c lun H'(w.Ow) seper H'(c,Oc) i'nj. (shee «(V)(c=0) LiH'(w, Ow(-c)) =0. vanishy & H'(W, Ox(-c)) =0. Take 1(Vi, Fi) (E X (1Vi, Ov (-c)) & Construct the "form | primitive ((V; F)) { SI(v; F;) { = 1(v; e, F; e) { $\left(F_{j} = \sum_{k=1}^{2} \frac{\partial h(h_{k}) \cdot w_{j}^{2}}{\partial h(h_{k})} \cdot w_{j}^{2}\right)$ Mice locadet tre of C Steps show the convergence of F. (Hom muse [k-17])

c: vett one with a mole, for suplicin (the standard under or by a uphal of C, (EUCI) : gluen. = p1, 1(0)=1(00)= nod 17.7. $\mathcal{T}: \mathcal{O}_{\mathbb{P}^1}(-2) \longrightarrow \mathbb{P}^1$ S=T1; non-hong, coord. & fiber coord; \$0: around Do!=15=04. \$00: around Doo!=15=001. Op2 (-2) Ti: mall abbd et 2-(Do VD0) To ~! gard by F! Vot = Vo J:= 7/~ -> + (N/s)=+ (C,5); as in Man then, C= V. E V= Vot v V, v V- C (univ. cov. of V) $\widehat{V_i}^{\frac{1}{2}}$ copies of V_o , $\widehat{V_i}$: a copy of V_i . single conjutation i* <= = = + po + po Vor Vor.