AG Semmas - Baran 21111.

where we put trunsition functions

(t, f; (Z)t)) to be holomorphic

ti trans. fug. ou I to agree with trans, fus. on Mt for fixed t's. - we man consider the tangent space

Spanned by elements D. (f)==== ofice(est) 2

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Ofice(est) 05 in fact [It] EHI (Mt, Ot) as infinitesimal deformations -selting Z;=f;(Zj)t), Pd. (z.,t) - Pik (z,st) + 32/3; Vik (z,st)=0 where vijs of ij(zj,t) -> differentiating by + gives ۶۰; (+) - گزاد (+) م تو زار) و [الروز (+) بازد (+)) Coboundary - we get?

Thm Suppose DEH'(hto) to) and you have a tamily with $2(t_0)=0$. Then $[J,\vartheta]=0$ in $H^2(M_t,J_t)$

Then H2 (Mto, 2to) = 203 => possible to build up

cpx cenalytic tamily for Mto.

-> so we know something abt obstructions

- some definitions 1) (MawsB) is complete at a point to &B if \(\(\mathreal \), \(\pi_3 \) with \(\omega^{-1}(6) = \pi^{-1}(6) \) 3 6: No-> W holomorphic d h', s → ts

and

Ns

To M to to commutes.

1) (M, w, B) is effectively parametrized

if St: Tt B -> +1'(Mt, Ot) injects +1eB.

- Some ressumptions
 - · ZM+3+&B C.c.m. & M+ C>W, codimor Mx=1 submfld.
 - · (M,w,B) & &; M -> W

¿Uj3 cover M, y(Uj) ⊆ Wj

MINW; = & S; (Z;,f) = 0 } -> gives a line bud! Ft [H] w trungitions SisFijs; on Wis a section 2(1) on ot on Mt gives

a section 2(1) on ot or ot of ot of ot ot

-all together we get the nice diagram

Lenna H°(M+, 6(F+)) = < V, -, V, >

Then It St sury, at to then the family is complete at to.