

8 X+ 2 brok collide: Examples: 3 b p collide is a proper DM stack with a proj course sp. containing Hg as open subsp. & admitting br: Hg(w) - Mu,b(w). O H3 (w) = (p: C→P, f,..., P, Thry (Weighted adm covers) The space

"Spaces of typell conves ... Thm; For d=2,3, any w Hg (w) is sm by inced. d=8 was spatial sing v. d=2 -> Maksym Fedorchukk d=2 ~~ planar sing ~ PG (SKetch): br is not finite planar trip K br pt collide If > 6 b.p. can collide

4-2

$$q: C \longrightarrow P^1$$
,  $q_* O_c = O_{p_1} \oplus O_{p_1}(-a) \oplus O_{p_1}(-b)$   
 $a+b=g+2$ ,  $a,b>0$ ,  
 $M = [a-b]$ , Upper semi cont,  $z = g \pmod{2}$ 

## Add one more marked pt.

Pic 1K3, not Fano

Thm: Let 0 < 1 < 9 , 1 = 9 (mod 2)

Joji of P:C → IP, or where

· C is a conve of genus g

· Maroni (4) ≤ U and

if br(4) = b.p then 14(4)>1

is a sm, proper DM stack with a proj coarse

space biral to Tgis.

@ For greven, T3, ---> To extends hor a morphism and contracts the divisor of

3) All the other maps in @ are iso in codim 1

covers with Maroni=2 to a 1P'.

T3 --> T3-2->---> T3:1 (1) 图》 (1) 图》 (1) Rmk: T3= T3, (4-) Div contr.

This OTE ... > Tail extends to a morphism that contracts the hyp-ell divisor H to a point comes to a D23-2 sing.

The Last spaces

g even

750 = WHA proj space / 53

Pic ok 2.

Ti Pierk 2, fibered over IP'

4 marked pts on it (or). [C \$ 10, or] [ of 4 mark

Chamber decomposition 2 2012 8+494 Take 0<1<9

Pica = Pic (Total) & QR

= (2,5)

Thm: The ample cone of  $T_{3,1}$  is bounded by D1, and D1+2, where  $D_{4} = \left\{ (79+6)\lambda - 98 \right\} + \frac{1}{942} (9\lambda - 8).$ 

o More pic a H<sub>2</sub>, H<sub>2</sub> = Min, Mr. etc. in the intro
"Mention #Ath, lost Fano / fibration omodels.

· Draw Mg My tachodes on the board.

. Don't with out dd. of adm covers, Thus draw pictures.

describe bry by coming

& draw pic of odm covers.