Cyisonni
1 2 5 1 5 (1.7) c 5 ² P(1.2) i
- renlise RS as 0-locus { (NST) FC? P(WSA) sig
- in particular hyperellistic
$((\omega)^{\prime})^{\prime}$
$P(N, \lambda) = N^{2} - \frac{2q_{1}^{2}}{(\lambda - \lambda_{1}^{2})}$ $- ocally > (N, \lambda) - \lambda \text{away from } \lambda_{1}^{2}$ $- ocally > (N, \lambda) - \lambda \text{at } \lambda_{1}^{2}$ $(N, \lambda) - \lambda \text{at } \infty (\text{compactif})$ $(N, \lambda) - \lambda \text{at } \infty (\text{contract})$
$\frac{1}{2} = \frac{1}{2} = \frac{1}$
(m,1) is at a (contra)
- and of hold exentials ex= 2 k-1 dl, kol, ng
- Det. Totelli marking si.e. basis for
homology a,b,, ag, by s.t.
honology a,b,, ag, by s.t. a; #a; s b: #b, = 0, a; #bj = 8;;
·
Th. (Riemann bilin.) Sx wry = Z (gag y - gw gy)
$= \sum_{i=1}^{9} A_i \overline{B_i} \leq 0.$
-torelli matrix pick AsTl, so
Boym 1 In B 30
- Abel nnp A: X -> Cg
BoymalinBoo - Abel nap A: X -> Cg P -> E Swis -, Stwas Po Po
- J(x) = (3/(23+BZ9) Jacobian varioty,
so also A:X->J(X)
- letting t be gra syam & Int 7,0,
detina
detina 9(-,7); (9-> C = in(cu,u)+21(i23,4) = -> H(z,z) = = e
neZg

-let e6 (9) and define
$$9e: X \rightarrow C$$

P $\rightarrow V(A(P)-e)$

-if e is such that $ve=0$, we say

e belongs to theta divisor

- $A(Ve) = e - k$

Prop Let $e = A(pi = rpg - i) + k$

=> $F(P,Q) := V(A(p - Q) - e)$ is O

iff $P = Q$ or $P = P_j$, $j = 1$, ..., $q = 1$

PHP Find $2p(A): C(P - 2l_{ij} - 2l_{ij} - 2l_{ij})$

• $2p(A_0) = 1d$ ($2p = 2l_{ij} - 2l_{ij} - 2l_{ij}$)

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- rephruse es y = = = A; 7

if dhi=0, A; solve Schlesinger equs.

 $\frac{\partial A_i}{\partial \lambda_i} = \frac{[A:, k:]}{\lambda_i - \lambda_j} \Rightarrow \frac{\partial A_i}{\partial \lambda_i} = -\frac{\sum_{i \neq i} [A:, k:]}{\lambda_i - \lambda_j}$

Taul dA; 3 & HK, A; 3

where Hr= ses Ts A2= ses let A = > +5 A;k and & H: , H; 3 = 0

-this also means $\frac{\partial H_i}{\partial \lambda_i} = \frac{\partial H_k}{\partial \lambda_i}$ locally $\frac{\partial}{\partial \lambda_i} = \frac{\partial}{\partial \lambda_i} = \frac{\partial}{\partial \lambda_i}$