SP = group

fot = function

alg/m = algorithm

mathcal D F mathfrak S S

(Hodge on pradic Hodge on) Hogge-Arakelon application 3/motion theor (complex Teichmüller theory men Diophantine inequality DaG Mochignki's discoveries D - GLOUD

anal mit-unin int-unin.

Fifield

Galois theory;

GF36K1 => K1=K2 Newhirch Uchida K, K, COfin.

GK, EGK, = K, EK,

as top gp

X, Xz: hyporb. curves / field F

X, Xz hyporb. curves / field F Under 2000 conditions outer isoms and full. Q. When do we treat TIX or GF as abstract top. gps? A. In IUTch!

(possibly first time)

inter-universality labeling explorers achorne theories in strong this over the some thouse the strong of the thouse the theory of the the

FI, F2/Qfin, Aut (F) = Som (GalF2/F2), Gal(F1/F1)

+ Ut (F) = Gal(F1/F1) Chap III & S P.420
-423

+ Out (GF) = Autom's which do not come from isom's of appeals. = auton's which do not and thoony

Frigid = Outram GF, GF,

Teichmiller dilation

Teichmiller dilation

 $\operatorname{codim}(G_{\mathsf{F}}) = 2$

an régorer of th'ally mter-universally CT=STXRso underwidens of CX underwidens of CX highed non-highed

MLF: \$ Neuhinch - Uchida type thin absirah, germ. GF als'm mult. SP FX Religi cuppidalization

Li strictly Bolyi typ (F) 7 bleng got CXTT F/Q fin,

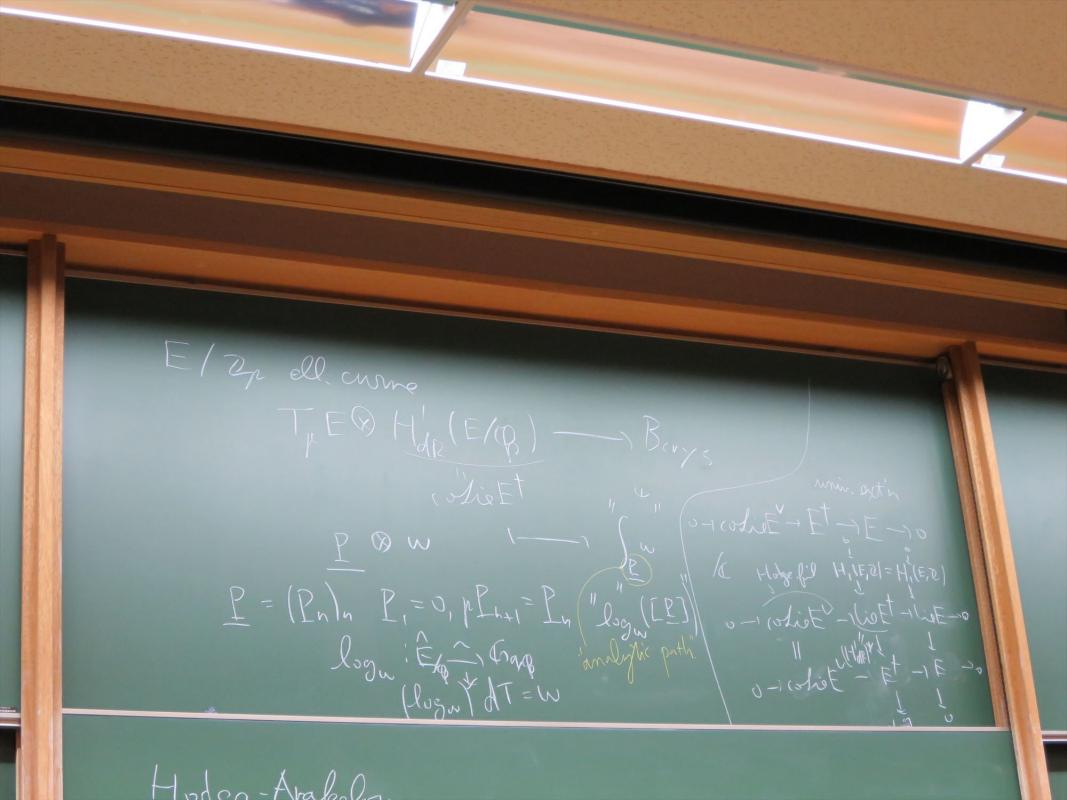
GF, GF? OF: = OF 1/04 "mono-analytic" (~ real analytic) TTX, TTX OF "arithmetically holomorphic" (holomorphic) the non-violed dimension

HICX, 2) & Har(CX) - C By AT - CAT = 2 This

perfect pairing GT = 2 This

n-adic Hodge / P

pradic Hodge / P $G = \{G_n\}_n$ $G_1 = \{G_n\}_n$ $G_2 = \{G_n\}_n$ $G_1 = \{G_n\}_n$ $G_1 = \{G_n\}_n$ $G_2 = \{G_n\}_n$ $G_2 = \{G_n\}_n$ $G_3 = \{G_n\}_n$ $G_1 = \{G_n\}_n$ $G_1 = \{G_n\}_n$ $G_2 = \{G_n\}_n$ $G_1 = \{G_n\}_n$ $G_2 = \{G_n\}_n$ $G_3 = \{G_n\}_n$ $G_1 = \{G_n\}_n$ $G_1 = \{G_n\}_n$ $G_2 = \{G_n\}_n$ $G_3 = \{G_n\}_n$ $G_3 = \{G_n\}_n$ $G_4 = \{G_n\}_n$ $G_5 = \{G_n\}_n$ $G_6 = \{G_n\}_n$ $G_7 = \{G_n\}_n$



 $E(F)(z) \rightarrow P + 0$, $Z := \Theta(I(P))$ his like one $E \mapsto_{F} e^{iz}$ (som of F-red. mare pointed (Arch) integral str.

(feeling 1000 of IUT 22 total) (sounder 1/ FEE) and File ithely

The case of the man ties it is a file ithely FET descl ~ DF / repair of and marked dest to

We consider on the modeli thotor fit dominations to the model and sold of the model $\sqrt{\pi} = \int_{-\infty}^{\infty} e^{-\chi^2} d\chi$ $cant_{0001d}, \qquad \omega_{E}^{2} = \Omega_{100}$ $polar_{0001d}, \qquad \log^{2} = 2\pi i$ $(0001d), \qquad (0001d), \qquad (0001d$

1. anabelian seem (-tools Hodge-Arakelin "design "story" E[2] > M [nanh = 1, From aich had]

For such such

(in general) If H existed K=F(E[0]), E:= E/M

K=F(E[0]), E:= E/M

A=19hilling

Q-paramolar

P(g^{2}) OK

P(g^{2}) OK Hodge Pillin incompat. UI direct sum decomp. in RHS Fil = 90k mon-trivial of 4: = 9/22 January Kodanja Sponser map deg = 0 light light and light

0 < − (large number (2-tr(E)) That to have bounded Want 90 C 320 0 8 Hodge-Arabelon i USP schome thory carnes obtain IVIch i use & abandon reland thoony mon-redome theodic

20 th a short hunts

1 tantological robition

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@ winter-unin >> Displ. mag. log-0-lottie los (-Harotic 9 · Hodge theater

Tilog-lik hyperl. () NF life pu/puts
in Wift via g 8 lattice todge Want to record in the universe of the right hand in the right hand (romber will indet.)

dichotory Frob. - like obj.: abstract by monoids exc. order respect

The obj.: Tx, GF & obj. reconstructed from Tx, GF

TTx of (TTx) ~ M = or(t Tx) indeferent to make from the protection of th

nTeich | IUTch

Kumman detachment Frolille Stall-like picture cart, cood.

M (MW) cart, cood. polar coord main thin of IVTch ([IVTch II, Th3,11]) After admitting 3 indet. (Indet), (Indet) both sides of Q-lih 1917 1516 8-1 me can put in the same platform & me cannot distinguish (oneog) (an compare des of his bolles (oneog) (under mild in het)

there index. are mild ones.

(* deop & read delicte (outmations) mono (alculate concretely ([IVThIV])

intamer (alculate concretely ([IVThIV])

(alculate concretely ([IVThIV])) A for Log-diff, + log-cond. Vojta's inequality

(kith Arch. analogne) (n/ [AbsAnab], [Can(ift], [AbsSect], [Canbac])
[LabsSect], [Canbac]

2) mono-thota env. [E+Th] \$1,2

3) Fr'd thorothic mono-thoton env. [E+Th] 8325 Th

3) Fr'd theoretic mono-thota env. [E+Th] 8325 > M/ (Fr'd [FrdI], [FrdI])

9 somi-graphs of anabelioids [SomiAnab] (5) log-shells [AbsTop II] & 3,4 [mol. conj. conj. (b) reductions by usual arith geom.
[GenEII] [Belyi] cf. [Pano] [HASUrI], [HASurI] P-rift §2. Preliminarios en Anabelian Gran.

Prop 2.1 1=1,2 K; / P. fin, 11 now hid king the index of the man Poly his colling of the man poly his fix in the fix of the man idex of the man of the colling of the mention of the index of the mention of the index of the inde

di GK, ~ 16Kz ison. of molyps

(1).
$$p_1 = p_2 (=:k)$$

(2). $d^{al} : G^{al} = G^{al} = k^* C Q_{K_1}^* C G_{K_2}^*$

induce isom's

(a). $d^{al} : k_1^* = k_2^*$

(b). $d^{al} : Q_{K_1}^* = Q_{K_2}^*$

(c). $d^{al} : Q_{K_1}^* = Q_{K_2}^*$

(d). $d^{al} : K_1^* = K_2^*$

(3), (a), [k,ip] = [th; cp]
(h), f(k,) = f(kz) (b) d/PK, PK, PK,

The induced map GK, Im/IK, 2 GK, In/IK, Weserres

the Frol, elt Frok; the induced map Gal / Im/Ik/ 2 Gal / In/Ik/ preserves

the Frol, elt Frolk; (b), the collection of the isomis of (d/y)at, Vala vally also induces Molo(K1) - Molo(K2) The action of Gk. (1:-1,2)

The action of Gk. (1:-1,2)

Mark := Lyhlk

Mark: = Ly which is compose, u/ := h3(K) 8015 Mo15(K) inches by a is what we the isom's 12 log (12/2)

He (called the list of the isom's 12 log (12/2)

He (called the list of the isom's 12 log (12/2)

proof) Hoshi's talk.

Rom (notwithing are made in mono-anabelian manner $G^{2}G_{1}$ $F(G_{1})^{2}F(G_{2})$ $G^{2}F(G_{1})$ $G^{2}F(G_{1})$ $G^{2}F(G_{2})$ \$2.2 Arithmetric Quotient (1), FINF (sp-th'ally characterized in TT.
Then Die sp-th'ally characterized normal subsp of TT.
by the mark, closed normal subsp. fin. gen.

proof) Hoshi's talk.

6-1 (2) G-1 TT -1 Gal -10 Har/-1015/ (2), F/Qfin, For open onlyp TT'CTT, \(\D':=TT'\D', \G':=TT'\D'\)

let G' act on (\G')ah by corj. Assume (Tam 1) 4TT/CTT open, Q:=((S)ph)G//(tor) in a fin. gm. Then \(\text{in gp th'cally characterized in Tr as the intersection of there you sulges TI'CTI s.t. for the ltp (Tam2) dig(TI'ld 22 lb - dig(TI'ld 22 le LTI'ld 2

whose is also gethically characterized as
the unique pre s. t.

dight of the open and the open to

all the open and the open to

all the open and the open to

all the open to Mosel (1), Gal(F/F)) typ. fin, gam. alood non I map = 414 [T, (F), Th 15,10] (2), 1-15-17-6-11 -1-14'(6,00)-14'(1,010)-14'(1,010)-14'(6,00) Harriotal 6-1 (2) 2-1 II -1 (2) -10
636/2 -1 II -1 (2) -10

For your only TICTT, W:=TI'N A, G':=TI'LS'

For your only TI'CTT, W:=TI'N A, G':=TI'LS'

Out 6' act on Wight by conj.

(Tom) ~ dight 19haz & -dight 130 = digla:142 of & - diogla:16h of 0= [F:8]) (Tame) (=) [F'; p) = (T: T) [F: p] E) [T:T']=[G:G'] E) 0=0'

Len 23 ([Abstrab, Com. 1.1,5]) F/Bfin, A: Romi-ablia van /F FOF of lone Gi=GU(F/F) T(A):=Hom/Q/2, A(F)) Tato modulo of A =) Q:=T(A)g/(tox) is a fin. sm. fle 2-module. exact, zeg. of pul gps

Assume D: top fin. gen.

(1), FiNF

Then Die p-th'ally characterized in TT

by the max, closed normal sulge of TT

by the max, closed normal sulge of TT

Con χ : geom. conn. amooth hyporb. cure. $/Ff_{\beta}^{ih}$ We have a η this characterization

of $\Delta := \pi_{i}(X_{F}, \overline{X})$ in $\Pi := \pi_{i}(X, \overline{X})$ $\chi \neq F$ NF, MUF

NF, MUF TI ~ ACTI NF, MUF MOCT